

Chevron Environmental Management Company

Feasibility Study

**Operable Unit 1D, Operable Unit 1E and
Operable Unit 3**

**Former Texaco Research Center, Beacon
Glenham, New York**

Site ID# 314004

NYSDEC ID #3-1330-48/16-0

EPA ID #091894899

January 2022

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January 23, 2022

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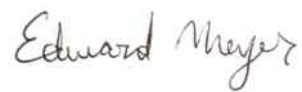
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Certification in Accordance with DER-10

I, **Krista Hankins Mastrocola**, certify that I am currently a **NYS registered professional engineer** and that this **Feasibility Study** was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications (DER-10, Section 1.5(b)2).

Krista Hankins Mastrocola

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Acronyms and Abbreviations

ARAR	Applicable or Relevant and Appropriate Requirement
Arcadis	Arcadis of New York, Inc.
BAA	Benzo(a)anthracene
BAP	Benzo(a)pyrene
BBF	Benzo(b)fluoranthene
BBK	Benzo(k)fluoranthene
bgs	below ground surface
CEMC	Chevron Environmental Management Company
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
Chevron	Chevron U.S.A. Inc.
COC	Constituent of Concern
COPC	Constituent of Potential Concern
Dibenzo	Dibenzo (a, h) anthracene
EC	Engineering Control
FS	Feasibility Study
ft	feet
GRA	General Response Action
GWQS	Groundwater Quality Standards
IC	Institutional Control
ICM	Interim Corrective Measure
Indeno	Indeno(1,2,3-cd) pyrene
MOSF	Major Oil Storage Facility
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NYCRR	New York Code, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation

NFA	No Further Action
OC	Order on Consent
OU	Operable Unit
OU-1D	Residential Property and Rail Siding Area
OU-1E	Back 93 Parcel
OU-3	Residential Property
PAH	polycyclic aromatic hydrocarbon
RAO	Remedial Action Objective
RCRA	Resource Conservation Recovery Act
RIR	Remedial Investigation Report
ROD	Record of Decision
TCE	Trichloroethene
the Site	the former Texaco Research Center Beacon (Chevron Facility No. 314004) located in the Hamlet of Glenham, Town of Fishkill, Dutchess County, New York
SCO	Soil Cleanup Objective
SCGs	Standards, Criteria and Guidance
SVOC	Semi Volatile Organic Compound
TRCB	Texaco Research Center, Beacon
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
WATF	Washington Avenue Tank Farm

1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis of New York, Inc. (Arcadis) has prepared this Feasibility Study (FS) for the former Texaco Research Center Beacon (TRCB; Facility No. 314004) located in the Hamlet of Glenham, Town of Fishkill, Dutchess County, New York (the Site) (**Figure 1-1**). Specifically, this FS focuses on three of the eight operable units (OUs) associated with the Site. The three OUs included are:

- Residential Property Parcel (OU-1D; includes the former Rail Siding Area);
- Back 93 Acre Parcel (OU-1E); and,
- Residential Property Parcel (OU-3).

This report has been prepared in accordance with the regulations and in substantial conformance with the Technical Guidance for Site Investigation and Remediation (DER-10) and the Order on Consent (OC) issued by the New York State Department of Environmental Conservation (NYSDEC) dated October 31, 2013 (**Appendix A**).

1.1 Report Organization

In addition to the introduction, this report is divided into eight sections as follows:

- Section 2 – Site Background: This section presents an overview of this report's Site OUs and provides details regarding general characteristics and reporting history for the Site.
- Section 3 – Summary of OUs: This section provides information regarding the existing conditions, and previous environmental investigations and actions conducted in association with OU-1D, OU-1E, and OU-3.
- Section 4 – Applicable or Relevant and Appropriate Requirements (ARARs) and Remedial Action Objectives (RAOs): ARARs and RAOs are identified for the Site and contaminants of concern (COCs) and areas of attainment are established for impacted media associated with OU-1D, OU-1E and OU-3.
- Section 5 – Identification and Screening of Remedial Technologies: General Response Actions (GRAs) are developed for soil and groundwater. GRAs are broken down into technologies and process options that are applicable for OU-1D, OU-1E and OU-3.
- Section 6 – Development of Remedial Alternatives: Remedial alternatives are presented for OU-1D soil, OU-1E soil, OU-1E groundwater, and OU-3 soil by combining applicable technologies and process options.
- Section 7 – Analysis of Remedial Alternatives: Using the nine criteria identified in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) [40 Code of Federal Regulations (CFR) 300.430(e)], a detailed evaluation of remedial alternatives for OU-1D soil, OU-1E soil, OU-1E groundwater, and OU-3 soil are conducted.
- Section 8 – Summary of Recommended Alternatives: The recommended alternatives for OU-1D soil, OU-1E Soil, OU-1E groundwater, OU-3 soil, and OU-3 groundwater are presented.
- Section 9 – References: A list of references used in preparation of the FS.

2 Site Background

The Site was constructed in 1811 as a textile mill by The Glenham Company. In 1917, stone buildings were demolished, and new buildings were built by Braeburn Woolen Company. The facility closed and became the possession of Mechanic's Savings Bank in 1929.

Texaco purchased the property in 1931 renovated the former mill to become a crude oil refining research facility (hereinafter referred to as the "TRCB"). TRCB operated from 1931 until its closure in 2003. During this time, many structures were added to the property, including a Major Oil Storage Facility (MOSF) "tank farm" with several aboveground storage tanks (ASTs). In 2001, the Chevron / Texaco acquisition was approved by shareholders of both companies and Texaco became a subsidiary of Chevron U.S.A. Inc. (Chevron). The Site is currently owned by Chevron and CEMC manages environmental projects for the Chevron affiliates.

The TRCB was closed in 2003 due to a steady decrease in the size and scope of research activities at the facility. Under the direction of CEMC, most of the facility was decommissioned and demolished including the demolition of the MOSF tank farm. A sitewide asbestos abatement and demolition project was performed at 46 facility buildings in 2011.

2.1 Site Setting

The Site is located on approximately 153 acres of land located in the Hamlet of Glenham, Town of Fishkill, Dutchess County, New York (**Figure 1-1**). Glenham is a small residential community with churches, businesses, and a fire hall near the Site. The Site is bisected by Fishkill Creek and a hydraulic dam (approximately 22 feet high) used for generating hydroelectric power spans the creek within the boundaries of the Site. The Site is divided into eight distinct Operable Units (OUs) for investigation purposes (**Figure 2-1**).

- The Main Facility (OU-1A) parcel and the Church Property (OU-1B) parcel are both located north of Fishkill Creek.
- The former Washington Avenue Tank Farm (WATF) (OU-1C) is located south of Fishkill Creek, and on the eastern edge of the Site.
- Two parcels (OU-1D and OU-3) that are currently zoned as planned industrial lots and do not have any TRCB structures, exist along the northern side of Washington Avenue and south of Fishkill Creek. These parcels are expected to become residential properties, and the nearby properties are currently residential; therefore, these properties have become known both internally and externally as the "Residential Property" parcels.
- A 4.96-acre parcel, the Hydroelectric Facility and Dam Parcel (OU-4), encompasses the hydroelectric power buildings and dam with access on both sides of Fishkill Creek.
- OU-2 is the Road Parcel, located in and along Washington Avenue.
- The Back 93 Acre (OU-1E) parcel comprises most of the site area and is located south of the creek on the south side of Washington Avenue (**Figure 2-2**).

This FS defines the area of attainment and recommended alternatives for OU-1D, OU-1E and OU-3. The remaining OUs will be covered in future FS submittals.

2.2 Geology and Hydrogeology

OU-1D, OU-1E and OU-3 are currently vacant. The area surrounding these OUs consists of primarily residential properties and a few commercial properties to the northeast of the OUs. These commercial properties include the Slater Chemical Fire Company and the Beacon Church of God, as well as several restaurants. These locations are considered upgradient from site sources and were not impacted by the TRCB operations.

In addition, a utility right-of-way property owned by Central Hudson Gas and Electric exists between the border of OU-1E and residential properties to the east. Residential properties exist immediately around the site OUs and primarily consist of single-family homes.

2.2.1 Regional Geology

The Site is in the Hudson-Mohawk Lowlands physiographic province of New York State (New York State Museum 2020). The province is characterized by generally low-lying lands of slight relief mantled by glacial deposits. Topographic relief in the region ranges from near sea level at the Hudson River (about 2.3 miles west of the Site) to about 400 feet at the tops of hills scattered across the lowlands. Beacon Mountain (locally known as “Mount Beacon”), which marks the edge of the adjacent Hudson Highlands physiographic province, begins to rise about 1 mile south of the Main Facility, reaching a maximum elevation of over 1,500 feet above sea level.

Pleistocene glaciers have excavated the surface and deposited great quantities of gravels, sands, silts, and clays in the Hudson Valley. Most of the unconsolidated deposits in the region are of glacial origin (Snively 1980). During the most recent glacial epoch, the Laurentide ice sheet advanced southward from Canada, extending as far south as Long Island approximately 20,000 years ago. Till, an unsorted mixture of fine material, sand, gravel, cobbles, and boulders deposited at the base of the glacier, blankets the hills in the region and underlies other glacial deposits in the valleys. Sands and gravels occur as outwash deposited by glacial meltwaters in lowlands. In some areas, glacial lakes formed, beneath which lacustrine (lake) silts and clays were deposited.

The area also contains alluvial deposits that were laid down after the glacier retreated. Coarse sands and gravels are present in alluvial fans deposited where streams flowing off the Hudson Highlands meet valley floors. Finer grained sands and silts are found in the floodplains along present-day drainages such as Fishkill Creek.

2.2.2 Site Geology

The unconsolidated (overburden) deposits at OU-1D, OU-1E and OU-3 consist of lodgement till, glaciolacustrine silt and clay¹, alluvial sand and gravel, and fill. Lodgement till, is a type of till that is deposited at the base of a glacier and is therefore very dense. The till at the Site consists of an unsorted mixture of sand, gravel, cobbles, and boulders in a matrix of fine sand, silt, and clay. Till generally directly overlies the bedrock beneath the Site. The thickness of till penetrated by borings drilled at the Site ranged from a few feet to over 20 feet. The till is absent in scattered areas across OU-1B and at the bluff along the north shore of Fishkill Creek downstream from the Texaco Dam, where bedrock is exposed at the surface.

Developed areas of OU-1D, OU-1E and OU-3 are mantled by a layer of fill. The fill is typically comprised of sand and silt and often contains building debris, asphalt, coal fragments, cinders, and/or ash. Previous investigations have concluded that much of the fill was placed before Texaco developed the property (GSC 2005).

¹ i.e., silt and clay deposited in a glacial lake.

2.2.3 Hydrogeology

The water table occurs in the overburden across most of the Site and fluctuates an average of approximately 3 feet seasonally. The groundwater table represents a subdued replica of the topography. At locations south of Fishkill Creek, groundwater moves from areas of higher elevation at OU-1E in the east and west toward a small valley where former disposal activities occurred. There is a groundwater divide in this valley that aligns with a topographic divide, which is approximately 1,600 feet south of Fishkill Creek. Groundwater north of the divide moves northward toward Fishkill Creek. Groundwater south of the divide moves south-southeast toward an unnamed tributary to Fishkill Creek that originates near the southeastern corner of the OU.

There are no permanent monitoring wells installed at OU-1D or OU-3. Based on nearby monitoring at OU-1C, OU-1E, and OU-4 groundwater flow from OU-1D and OU-3 is towards Fishkill creek. Historically, over 30 monitoring wells were installed at OU-1E; however, many were decommissioned once remedial actions were completed (IT Corporation 2000a). Consequently, the configuration of the water table in this OU is best represented by historical water-level data collected before the monitoring wells were decommissioned. **Figure 2-3** depicts the configuration of the water table for June 21, 1984, using data contained in O.H. Materials Co. (1985).

2.3 Reporting History

The following section provides a brief overview of recently submitted reports associated with OU-1D, OU-1E and OU-3 for soil and groundwater.

2.3.1 Ecological Resources Impact Analysis

An Ecological Resources Impact Analysis was prepared and presented in the Remedial Investigation Report (RIR) Revision 2 submitted to the NYSDEC in April 2021 and accepted on May 27, 2021 (Arcadis 2021a). The primary ecological exposure pathways are associated with surface soil, as well as surface water and sediments in Fishkill Creek and several small wetland areas within OU-1E. These pathways were addressed by evaluating available soil, sediment, and surface water data, as well as consideration of groundwater concentrations that could be discharging to Fishkill Creek and the wetland areas. Based on the evaluation performed in the RIR, potential ecological exposures to groundwater, surface water, and sediment are minimal and do not require further evaluation (Arcadis 2021a).

With respect to surface soil, OU-1D and OU-3 were eliminated due to lack of suitable habitat. While a few scattered exceedances of the NYSDEC SCOs for Unrestricted Use were observed at OU-1E, surface soil concentrations are generally within range of concentrations associated with background conditions, or at a sufficiently dispersed frequency to indicate lack of a defined source area. Due to the likelihood that removal of such compounds would lead to greater disturbance of the natural environment than current conditions, many of these compounds have not been retained for further remedial consideration.

2.3.2 Human Health Exposure Assessment

A Human Health Exposure Assessment (HHEA) was completed to determine the risks associated with current and future receptors for the various media present at the site. The HHEA was submitted as part of the RIR Addendum 1 submitted to the NYSDEC in October 2021 (Arcadis 2021b). The following conclusions were determined:

- Exposures to surface soil via inhalation, ingestion, and/or dermal contact are a potentially complete pathway for both current and future receptors.
- Subsurface exposure is an incomplete pathway for current receptors except for intrusive work performed. Future workers involved in subsurface intrusive activities would be expected to operate under appropriate mitigation measures to limit potential exposure.
- Soil vapor intrusion is currently an incomplete pathway for current receptors at any of the OUs. If development in the form of new buildings is expected at any of the OUs, additional soil vapor investigations should be completed at the OUs if necessary following notification to the NYSDEC and New York State Department of Health (NYSDOH).
- Groundwater represents a potential exposure medium to both current and future receptors for direct contact only during intrusive activities. Workers performing such an activity would be expected to operate under an appropriate safety plan for mitigating contact. Due to the lack of nearby potable wells, the groundwater flow at the site, and the Town of Fishkill's ordinance for no new potable wells, the ingestion exposure pathway is incomplete.

2.3.3 Acetone Evaluation

An Acetone Evaluation memorandum was submitted to the NYSDEC in December 2020 and a Revised Acetone Evaluation memorandum was submitted in October 2021 (Arcadis 2020c). Acetone was identified as a chemical of potential concern (COPC) within the near-surface and subsurface soils at the Site. Acetone exceeded the NYSDEC Unrestricted Use SCO in several samples collected during the 2017 -2018 Data Gap Investigation. Due to the frequency of the acetone exceedances and request from NYSDEC, the data was re-evaluated in consultation with Eurofins-Lancaster Laboratories, Environmental (ELLE; NY Cert. # 10670), to identify if these low-level exceedances were associated with lab contamination. Following consultation with ELLE, acetone exceedances were determined to be related to the use of a specific preservation medium (sodium bisulfate) during the 2017-2018 Data Gap Investigation.

The Acetone Evaluation presents further details pertaining to this re-evaluation and establishes that acetone is not a COPC for soil at OU-1D, OU-1E and OU-3 as approved by the NYSDEC in their February 11, 2021, Response Letter to the initial Contaminant of Concern Analysis Evaluation - Acetone memo (NYSDEC 2021).

2.3.4 Background Evaluation

A Background Evaluation was completed at the Site to determine concentrations at which certain constituents were indistinguishable from background concentrations. As part of the Data Gap Sampling in 2017-2018, background samples were collected at five parcels with similar soil compositions as the various OUs on site. Background results were compared to on-site results to determine levels below which detections were applicable to background concentrations. Results of the background soil evaluation have been provided in the Data Gap Investigation Report (Parsons 2019). Background evaluation tables have been included as **Table 2-1A** through **Table 2-6B**. Five off-site background parcels were evaluated. OUs in this FS were compared to background parcels as follows:

- OU-1D compared to Background Parcel BG04 (**Table 2-5A and 2-5B**)
- OU-1E compared to Background Parcel BG03 (**Table 2-4A and 2-4B**)
- OU-3 compared to Background Parcel BG04 (**Table 2-5A and 2-5B**)

Due to a consistent reduction in concentration with depth, and a limited collection of subsurface samples, no background samples were taken in the subsurface; therefore, the background evaluation results for near surface soils have been applied to subsurface, as subsurface soil samples were collected only to vertically delineate detections in the near surface.

As a result of the comparison to background results, the following COPCs have been removed from consideration.

- Iron was removed as a COPC for surface, near-surface, and subsurface soils at OU-1D.
- 4,4-DDE, iron, lead, manganese, nickel, and zinc were removed as COPCs for surface soil at OU-1E.
- Iron and lead were removed as COPCs for near-surface and subsurface soils at OU-1E.
- Iron and nickel were removed as COPCs for surface, near-surface and subsurface soils at OU-3.

3 Summary of OUs

The following section provides a brief overview and summarizes the results of historic investigations and remediations performed at OU-1D, OU-1E and OU-3 for soil and groundwater. All data presented herein has been screened against the promulgated NYSDEC Land Use Soil Cleanup Objectives (SCOs) and New York State (NYS) Technical and Operational Guidance Series (TOGs) 1.1.1, Groundwater Quality Standards (GWQS) for soil and groundwater, respectively.

3.1 Residential Property and Rail Siding Area Property (OU-1D)

The Residential Property Parcel (OU-1D) is a 2.06-acre vacant parcel on Washington Avenue (**Figure 2-1**). Previously, a portion of OU-1D was an off-loading point for rail cars delivering materials to the WATF. Previous reports have referred to this OU area as the Rail Siding Area. The Rail Siding Area appurtenances are detailed in the Supplemental RCRA Facility Investigation (SRFI; Parsons 2009b). Some equipment for pumping from train cars and underground piping to the tank farm are still in place. Currently no activities take place on OU-1D.

Soil and groundwater impacts have been identified at OU-1D above the NYSDEC SCOs and NYS GWQS, respectively. The impacts to OU-1D are likely related to the former Rail Siding Area operations that offloaded product from railcars and pumped materials to the tank farm.

3.1.1 OU-1D Soil

A total of 71 soil samples have been collected at OU-1D in association with surface, near-surface and subsurface soil investigations (**Figure 3-1**). No VOCs or PCBs were identified as COPCs. Additional examination of specific soil concentrations for OU-1D is provided in **Appendix B-1**, as well as included in the RIR Revision 2 (Arcadis 2021a).

3.1.1.1 Identified COPCs for OU-1D Soil Considered for Further Remedial Alternatives

A total of 11 samples were collected from the surface (0-0.17 feet below ground surface [ft bgs]). No pesticides were identified as COPCs in surface soils. Detections in surface soil samples above the NYSDEC SCOs identified the following COPCs (**Table 3-1A** and summarized below):

Constituents	Concentration Range	Frequency Exceeding Unrestricted (Standard)	Frequency Exceeding POG (Standard)	Frequency Exceeding Residential (Standard)
Arsenic	5.99-96.4	7/11 (13 mg/kg)	6/11 (16 mg/kg)	6/11 (16 mg/kg)
BAA	0.025-1.3	1/11 (1 mg/kg)	1/11 (1 mg/kg)	1/11 (1 mg/kg)
BBF	0.036-1.9	2/11 (1 mg/kg)	1/11 (1.7 mg/kg)	2/11 (1 mg/kg)

Constituents	Concentration Range	Frequency Exceeding Unrestricted (Standard)	Frequency Exceeding POG (Standard)	Frequency Exceeding Residential (Standard)
Chrysene	0.037-1.2	2/11 (1 mg/kg)	2/11 (1 mg/kg)	2/11 (3.9 mg/kg)
Indeno	0.016-0.75	2/11 (0.5 mg/kg)	0/11 (8.2 mg/kg)	2/11 (0.5 mg/kg)
Lead	17.9-86.7	5/11 (63 mg/kg)	0/11 (450 mg/kg)	0/11 (400 mg/kg)
Vanadium	21.5-237	1/11 (100 mg/kg)	NA	1/11 (100 mg/kg)

NA - Not applicable

Arsenic is the primary COPC at OU-1D driving remediation. BAA, BBF, chrysene, indeno, lead and vanadium were also identified as COPCs due to being co-located with arsenic.

A total of 35 samples were collected from near surface soils (0.17 - 2 ft bgs). Detections in near surface soil samples identified the following COPCs (**Table 3-1B** and summarized below):

Constituents	Concentration Range	Frequency Exceeding Unrestricted	Frequency Exceeding POG	Frequency Exceeding Residential
Arsenic	4.68-149	20/35 (13 mg/kg)	19/25 (16 mg/kg)	19/35 (16 mg/kg)
BAA	ND-3	3/35 (1 mg/kg)	3/35 (1 mg/kg)	3/35 (1 mg/kg)
BAP	ND-2.4	3/35 (1 mg/kg)	0/35 (22 mg/kg)	3/35 (1 mg/kg)
BBF	ND-3.5	5/35 (1 mg/kg)	3/35 (1.7 mg/kg)	5/35 (1 mg/kg)
BKF	ND-1.6	3/35 (0.8 mg/kg)	0/35 (1.7 mg/kg)	2/35 (1 mg/kg)
Chrysene	ND-3.3	3/35 (1 mg/kg)	3/35 (1 mg/kg)	3/35 (1 mg/kg)
Dibenzo	ND-0.4	3/35 (0.33 mg/kg)	0/35 (1000 mg/kg)	3/35 (0.33 mg/kg)
Indeno	ND-1.3	5/35 (0.5 mg/kg)	0/35 (8.2 mg/kg)	5/35 (0.5 mg/kg)
Lead	9.48-107	7/35 (63 mg/kg)	0/35 (450 mg/kg)	0/35 (400 mg/kg)
Vanadium	14.1-508	3/35 (100 mg/kg)	NA	3/35 (100 mg/kg)
Mercury	0.027-2.66	18/35 (0.18 mg/kg)	7/35 (0.73 mg/kg)	6/35 (0.81 mg/kg)

ND – Not Detected above Detection Limits

Arsenic is the primary COPC driving remediation at OU-1D. BAA, BAP, BBF, BKF, chrysene, dibenzo, indeno, lead, vanadium, and mercury were also identified as COPCs due to being co-located with arsenic.

A total of 25 samples were collected from subsurface soils (greater than 2 ft bgs). No pesticides were identified as COPCs in subsurface soils. Detections in subsurface soil samples identified the following COPCs (**Table 3-1C** and summarized below):

Constituents	Concentration Range	Frequency Exceeding Unrestricted	Frequency Exceeding POG	Frequency Exceeding Residential
Arsenic	4.39-35.4	3/25 (13 mg/kg)	2/25 (16 mg/kg)	2/25 (16 mg/kg)
BAA	ND-4.4	1/25 (1 mg/kg)	1/25 (1 mg/kg)	1/25 (1 mg/kg)
BAP	ND-3.6	1/25 (1 mg/kg)	0/25 (22 mg/kg)	1/25 (1 mg/kg)
BBF	ND-4.1	1/25 (1 mg/kg)	1/25 (1.7 mg/kg)	1/25 (1 mg/kg)
BKF	ND-2.3	1/25 (0.8 mg/kg)	1/25 (1.7 mg/kg)	1/25 (1 mg/kg)
Chrysene	ND-4.1	2/25 (1 mg/kg)	2/25 (1 mg/kg)	2/25 (1 mg/kg)
Dibenzo	ND-0.48	1/25 (0.33 mg/kg)	0/25 (1000 mg/kg)	1/25 (0.33 mg/kg)
Indeno	ND-1.6	1/25 (0.5 mg/kg)	0/25 (8.2 mg/kg)	1/25 (0.5 mg/kg)
Lead	8.5-138	1/25 (63 mg/kg)	0/25 (450 mg/kg)	0/25 (400 mg/kg)
Mercury	0.0225-0.354	2/25 (0.18 mg/kg)	0/25 (0.73 mg/kg)	0/25 (0.81 mg/kg)

ND – Not Detected above Detection Limits

Arsenic is the primary COPC driving remediation. Residential Use exceedances of arsenic occur at a maximum depth of 4 feet bgs, and Unrestricted Use exceedances are identified up to 12 feet bgs. BAA, BAP, BBF, BKF, chrysene, dibenzo, indeno, lead and mercury were identified as COPCs due to being co-located with arsenic. Impacts of these COPCs extend to a maximum depth of 4 feet bgs with the exception of chrysene which extends to 9 feet bgs.

3.1.1.2 Other COPCs for OU-1D Soil Not Considered for Further Remedial Alternatives

Although pesticides (4,4-DDE and 4,4-DDT) were detected above the NYSDEC SCOs for Unrestricted Use for soil at OU-1D in the near surface at two soil borings (OU1DSB02 and OU1DSB10). Pesticides were not used in historical operations associated with the OU and are more consistent with the likely use thereof at the neighboring property (e.g., park maintenance). Furthermore, the NYSDEC SCOs for Unrestricted Use is based on the Protection of Ecological Resources and OU-1D does not have a pathway to ecological receptors (refer to Section 2.3.1). Therefore, 4,4-DDE and 4,4-DDT are not considered COPCs for OU-1D Soil.

Furthermore, additional metals (chromium, manganese, nickel, zinc) have been detected above the NYSDEC SCOs for soil at OU-1D; however, many of these metals are unrelated to site sources, and are present in a limited number of samples above the SCOs. These detected exceedances are also sporadically dispersed throughout the OU, and not representative of defined impacted source areas.

Due to these factors, 4,4-DDE, 4,4-DDT, chromium, manganese, nickel, and zinc in soil at OU-1D were not retained for further remedial evaluation.

3.1.2 OU-1D Groundwater

No significant source areas were identified in soils at OU-1D that could have impacted groundwater. No exceedances of the NYS GWQS for VOCs and SVOCs were identified. In general, overburden groundwater samples detected metals in seven temporary well points and three monitoring wells at concentrations above the NYS GWQS (**Figure 3-2**). A summary of groundwater results and an analysis of results is provided in **Table 3-2**. Additional examination of specific groundwater concentrations for OU-1D is provided in **Appendix B-2**, as well as included in the RIR Revision 2 (Arcadis 2021a).

3.1.2.1 Identified COPCs for OU-1D Groundwater Considered for Further Remedial Alternatives

During sampling of temporary groundwater points, arsenic was detected above NY GWQS; however, due to the presence of arsenic at elevated levels in soil, it is anticipated that the soil concentrations contribute in part to the groundwater detections. Since soil remediation is anticipated to be completed, it is expected that the impacts identified in groundwater will be reduced and/or eliminated through treatment of the soil; therefore, no further remedial evaluation is recommended for groundwater.

3.1.2.2 Other COPCs for OU-1D Groundwater Not Considered for Further Remedial Alternatives

As reported in the RIR, evidence suggests detected concentrations of metals at some upgradient and downgradient locations may be artificially elevated due to entrainment of sediment in the groundwater samples. An important line of evidence supporting this includes detected concentrations of aluminum, which occur above the solubility limit in many samples. Metals such as aluminum, iron, sodium, magnesium, and manganese are abundant in the earth's crust and are components of many common minerals. Samples containing entrained sediment as a sampling artifact will exhibit higher-than-actual concentrations of any metals comprising the sediments because the acid added to preserve samples will dissolve the entrained minerals, liberating metals. Additionally, the disparity between the total (unfiltered) and dissolved results from the temporary well points indicate the groundwater concentrations may be biased high in the unfiltered analysis.

Furthermore, groundwater samples collected from monitoring wells located at the periphery of OU-1D (SWMW-63, 128, and 129) did not contain the same metals detected in samples collected from the temporary well points. Due to the expected entrainment of sediment in samples taken from the temporary well points, it is expected that the metals identified in the analysis are not present at unacceptable levels in the mobile form. Due to these factors, groundwater at OU-1D is not proposed for further remedial evaluation.

3.2 Back 93 Acre Parcel (OU-1E)

The Back 93 Acre parcel (OU-1E) is an undeveloped property located south of Washington Avenue and Fishkill Creek (**Figure 2-1**). A portion of the Back 93 Acre parcel is listed on New York State's registry of Inactive Hazardous Waste Disposal Sites due to its former use as a disposal site for regular facility wastes and small quantities of laboratory waste (**Figure 3-3**) (O.H. Materials Co., 1985). The Site was classified as a Class 2

hazardous waste site under the initial NYSDEC Part 373 Hazardous Waste Management Permit until the permit expired on March 29, 1996. The Site was reclassified as a Class 4 site² in 1996 under a New York State Administrative Procedures Act extension and monitoring activities have been ongoing as part of Class 4 requirements.

Areas of interest at the Back 93 Acre Parcel consisted of an “old” sludge lagoon and a “new” sludge lagoon³ (the two sludge lagoons are at separate locations approximately 550 feet apart), three chemical burial sites, a disposal pit, and a container disposal site. Additionally, four areas were identified that were referred to as Trash Piles “A” through “D” (**Figure 3-3**) onsite. These four separate areas were used for the disposal of non-hazardous materials during the history of the facility. Materials disposed of in these locations primarily consisted of wood and metal debris, grass clippings, old empty drums, and general trash.

There are two inactive TRCB structures currently located on the OU-1E parcel, a small shed housing the currently inoperable historic drinking water well and a below ground water reservoir. In addition, historic impacted materials related to the areas of interest listed above and their respective potential sources of impacts have been removed through Interim Corrective Measures (ICMs) and remedial actions.

3.2.1 OU-1E Interim Corrective Measures and Remedial Actions

Initial remediation began in 1985 and lasted through 1986 to remove trash from Trash Piles “A” and “B” and to excavate the container disposal site, three chemical burial sites, old sludge lagoon, and disposal pit. Initial remediation also identified an area between several of these locations that required remediation, and this area was excavated under the identification of “Open Dig Area”. Approximately 26,300 tons of material has been removed as part of these remedial actions. Closure of the ‘new’ sludge lagoon was completed in 1986 following excavation. These excavations are presented in the certification of closure report, submitted on July 23, 1986 (Texaco 1986, 1987). Additional excavation pits were dug in the Trash Pile “C” area to address aesthetic concerns by removing visible trash in 2000.

ICMs were performed on OU-1E between November 2005 and April 2006 to excavate and remove impacts from a hotspot at Trash Pile “D” near the former “Open Dig Area” identified in 2001, as well as surface soils from Chemical Burial Sites 1 and 3. In total an additional estimated 4,900 cubic yards or 10,600 tons were excavated and removed from the site to address volatile organic compounds (VOC) and semi-volatile organic compound (SVOC) (polycyclic aromatic hydrocarbon [PAH]) exceedances to the NYSDEC recommended SCOs.

Additionally, the property formerly included four structures (a washroom, storage shed, tennis court, and picnic shelter). Structures were removed during the sitewide building demolition project that took place in 2011 through 2012. Currently no structures exist on OU-1E except for remnants of the tennis court, a pump house that houses an inactive potable well system, and a concrete water reservoir.

3.2.2 OU-1E Soil

A total of 367 soil samples have been collected at OU-1E in association with surface, near-surface and subsurface soil. No VOC or PCB COPCs were identified. **Figure 3-4** illustrates the location of soil samples

² “Class 4” is defined as an inactive waste disposal site that has been properly closed and requires continued management.

³ Both lagoons were permitted under RCRA Part B.

collected for OU-1E. Additional examination of specific soil concentrations for OU-1E is provided in **Appendix B-3**, as well as included in the RIR Revision 2 (Arcadis 2021a).

3.2.2.1 Identified COPCs for OU-1E Soil Considered for Further Alternatives

A total of 81 samples were collected from the surface (0-0.17 ft bgs). Detections in surface soil samples above the NYSDEC SCOs identified the following COPCs (**Table 3-3A** and summarized below):

Constituents	Concentration Range	Frequency Exceeding Unrestricted	Frequency Exceeding POG	Frequency Exceeding Residential	Frequency Exceeding Restricted-Residential
Arsenic	4.56-84.4	3/81 (13 mg/kg)	2/81 (16 mg/kg)	2/81 (16 mg/kg)	2/81 (16 mg/kg)
BAA	ND-6.1	2/81 (1 mg/kg)	2/81 (1 mg/kg)	2/81 (1 mg/kg)	2/81 (1 mg/kg)
BAP	ND-7.3	2/81 (1 mg/kg)	0/81 (22 mg/kg)	2/81 (1 mg/kg)	2/81 (1 mg/kg)
BBF	ND-9.8	2/81 (1 mg/kg)	2/81 (1.7 mg/kg)	2/81 (1 mg/kg)	2/81 (1 mg/kg)
BKF	ND-4.5	2/81 (0.8 mg/kg)	1/81 (1.7 mg/kg)	2/81 (1 mg/kg)	1/81 (3.9 mg/kg)
Chrysene	ND-6.8	2/81 (1 mg/kg)	2/81 (1 mg/kg)	2/81 (1 mg/kg)	1/81 (3.9 mg/kg)
Dibenzo	ND-1.3	2/81 (0.33 mg/kg)	0/81 (1000 mg/kg)	2/81 (0.33 mg/kg)	2/81 (0.33 mg/kg)
Indeno	ND-4.3	2/81 (0.5 mg/kg)	0/81 (8.2 mg/kg)	2/81 (0.5 mg/kg)	2/81 (0.5 mg/kg)
Mercury	0.028-1.28	9/81 (0.18 mg/kg)	1/81 (0.73 mg/kg)	1/81 (0.81 mg/kg)	1/81 (0.81 mg/kg)

ND – Not Detected above Detection Limits

Arsenic, BAA, BAP, BBF, BKF, chrysene, dibenzo, indeno, and mercury exceedances have been identified in hotspot locations at the site.

A total of 253 samples were collected from the near-surface (0.17-2 ft bgs). Detections in near-surface soil samples above the NYSDEC SCOs identified the following COPCs (**Table 3-3B** and summarized below):

Constituents	Concentration Range	Frequency Exceeding Unrestricted	Frequency Exceeding POG	Frequency Exceeding Residential	Frequency Exceeding Restricted-Residential
Arsenic	ND-88.5	3/253 (13 mg/kg)	4/253 (16 mg/kg)	4/253 (16 mg/kg)	4/253 (16 mg/kg)
BAA	ND-6.2	3/253 (1 mg/kg)	3/253 (1 mg/kg)	3/253 (1 mg/kg)	3/253 (1 mg/kg)
BAP	ND-7	3/253 (1 mg/kg)	0/253 (22 mg/kg)	3/253 (1 mg/kg)	3/253 (1 mg/kg)
BBF	ND-9.4	3/253 (1 mg/kg)	3/253 (1.7 mg/kg)	3/253 (1 mg/kg)	3/253 (1 mg/kg)
BKF	ND-4	3/253 (0.8 mg/kg)	1/253 (1.7 mg/kg)	2/253 (1 mg/kg)	1/253 (3.9 mg/kg)
Chrysene	ND-6.6	3/253 (1 mg/kg)	3/253 (1 mg/kg)	3/253 (1 mg/kg)	1/253 (3.9 mg/kg)
Dibenzo	ND-1.1	3/253 (0.33 mg/kg)	0/253 (1000 mg/kg)	3/253 (0.33 mg/kg)	3/253 (0.33 mg/kg)
Indeno	ND-4	3/253 (0.5 mg/kg)	0/253 (8.2 mg/kg)	3/253 (0.5 mg/kg)	3/253 (0.5 mg/kg)
Phenol	ND-0.65	1/253 (0.33 mg/kg)	1/253 (0.33 mg/kg)	0/253 (100 mg/kg)	0/253 (100 mg/kg)
Mercury	ND-0.886	5/253 (0.18 mg/kg)	1/253 (0.73 mg/kg)	1/253 (0.81 mg/kg)	1/253 (0.81 mg/kg)

ND – Not Detected above Detection Limits

Arsenic, BAA, BAP, BBF, BKF, chrysene, dibenzo, indeno, and mercury exceedances have been identified in hotspot locations at the site.

A total of 41 samples were collected from the subsurface (greater than 2 ft bgs). Detections in subsurface soil samples above the NYSDEC SCOs identified the following COPCs (**Table 3-3C** and summarized below):

Constituents	Concentration Range	Frequency Exceeding Unrestricted	Frequency Exceeding POG	Frequency Exceeding Residential	Frequency Exceeding Restricted-Residential
BAA	ND-12	4/41 (1 mg/kg)	4/41 (1 mg/kg)	4/41 (1 mg/kg)	4/41 (1 mg/kg)
BAP	ND-8.6	1/41 (1 mg/kg)	0/41 (22 mg/kg)	1/41 (1 mg/kg)	1/41 (1 mg/kg)
BBF	ND-11	3/41 (1 mg/kg)	1/41 (1.7 mg/kg)	3/41 (1 mg/kg)	3/41 (1 mg/kg)
BKF	ND-4.1	1/41 (0.8 mg/kg)	1/41 (1.7 mg/kg)	1/41 (1 mg/kg)	1/41 (3.9 mg/kg)
Chrysene	ND-11	4/41 (1 mg/kg)	4/41 (1 mg/kg)	4/41 (1 mg/kg)	1/41 (3.9 mg/kg)
Dibenzo	ND-2.1	1/41 (0.33 mg/kg)	0/41 (1000 mg/kg)	1/41 (0.33 mg/kg)	1/41 (0.33 mg/kg)
Indeno	ND-5	2/41 (0.5 mg/kg)	0/41 (8.2 mg/kg)	2/41 (0.5 mg/kg)	2/41 (0.5 mg/kg)

ND – Not Detected above Detection Limits

Arsenic, mercury, and SVOCs are the primary COPCs driving remediation needs identified in hotspots across OU-1E. Residential-Restricted Use exceedances of arsenic and mercury occur at a maximum depth of 2 feet bgs. BAA, BAP, BBF, BKF, chrysene, dibenzo, and indeno were identified at a maximum depth of 2.5 feet bgs, at the location of the former Chemical Burial Site 3 area within OU-1E.

3.2.2.2 Other COPCs Not Considered for Further Remedial Alternatives

Additional compounds (4,4-DDE, chromium, manganese, nickel, vanadium, and zinc) have been detected above the NYSDEC SCOs for soil at OU-1D; however, these pesticides and metals are unrelated to site sources, and are present in a limited number of samples above the SCOs. These detected exceedances are marginally above the SCOs, sporadically dispersed throughout the OU, and not representative of defined impacted source areas based on the site's historical operations. Furthermore, the nature of the site being an ecological habitat (i.e., wooded with wetland features), attempts to mobilize to remediate these additional compounds would lead to a greater disturbance to existing environmental resources than leaving these soils in-situ.

Due to these factors, 4,4-DDE, chromium, manganese, nickel, vanadium, and zinc for soil at OU-1E have not been considered for further remedial evaluation.

3.2.3 OU-1E Groundwater

No significant source areas were identified in soils at OU-1E that could have impacted groundwater. Groundwater investigations for OU-1E have been ongoing since the 1980s. Additional examination of specific groundwater concentrations for OU-1E from 2017 to present is provided in **Appendix B-4**, as well as included in the RIR

Revision 2 (Arcadis 2021a), along with additional historical results. Currently, eight monitoring wells are sampled semi-annually at OU-1E as part of the OC at the Site (**Figure 3-5**).

3.2.3.1 Identified COPCs for OU-1E Groundwater Considered for Further Remedial Alternatives

Within the last two years sampling events, no metals have been detected above the NYS GWQS; however, VOCs and SVOCs have been detected at two of the eight monitoring wells above the NYS GWQS. Detections at these monitoring wells include (**Table 3-3**):

- Trichloroethene (TCE) was detected above the of the NYS GWQS of 5 ug/l at two monitoring well locations.
- 1,4-Dioxane was detected above the NYS GWQS of 1 ug/l at one monitoring well location.
- Hexachlorobutadiene was detected above the NYS GWQS of 0.5 ug/l at one monitoring well location.

Historically, groundwater at OU-1E has been evaluated for TCE and TCE breakdown products, including cis-1,2-dichloroethene, trans-1,2-DCE. In addition, three temporary wells were installed during the 2017-2018 Data Gap Investigation (**Figure 3-5**). These three temporary wells did not identify VOCs at concentrations above the NYS GWQS; however, select SVOCs and metals were detected above the NYS GWQS as identified below (**Table 3-3**).

3.2.3.2 Other COPCs for OU-1E Groundwater Not Considered for Further Remedial Alternatives

One sample collected during the 2017-2018 Data Gap investigation identified SVOCs (BAA, BAP, BBF, BKF, and chrysene). Due to the high tendency for these SVOCs to be adsorbed in soils, these results are likely a product of the entrained soil in the groundwater. In addition, this sample was taken from the side of the paved access road near the former tennis courts. No disposal activities took place in the vicinity of this boring, and historical groundwater potentiometry indicated this location being upgradient of potential source areas (Arcadis 2020a).

In addition to the SVOCs, evidence suggests detected concentrations of metals at some upgradient and downgradient locations may be artificially elevated due to entrainment of sediment in the temporary well points. An important line of evidence supporting this is detected concentrations of aluminum, which occur above the solubility limit in many samples. Metals such as aluminum, iron, sodium, magnesium, and manganese are abundant in the earth's crust and are components of many common minerals. Samples containing entrained sediment as a sampling artifact will exhibit higher-than-actual concentrations of any metals comprising the sediments because the acid added to preserve samples will dissolve the entrained minerals, liberating metals.

Furthermore, groundwater samples collected from monitoring wells located at OU-1E (DC-1, DC-2, DB-8A, DB-17) did not contain the same trace metals detected in samples collected from the temporary well points. Due to the expected entrainment of sediment in samples taken from the temporary well points, it is expected that the metals identified in the analysis are not present at unacceptable levels in the mobile form.

Due to these factors, BAA, BAP, BBF, BKF, chrysene, aluminum, iron, sodium, magnesium, and manganese in groundwater at OU-1E were not retained for further remedial evaluation

3.3 Residential Property Parcel (OU-3)

The Residential Property Parcel (OU-3) is a 0.67-acre vacant parcel on Washington Avenue (**Figure 2-1**). No TRCB activities were conducted on this property and no potential sources of releases existed on this parcel; however, a trash burning area was observed adjacent to the OU on a neighboring property to the east – this area has been identified as the probable cause of surficial soil impacts.

3.3.1 OU-3 Soil

A total of 26 soil samples have been collected at OU-3 in association with surface, near-surface and subsurface soil. No VOCs, Pesticides, PCBs, or Metals were identified as COPCs. Additional examination of specific soil concentrations for OU-3 is provided in **Appendix B-5**, as well as included in the RIR Revision 2 (Arcadis 2021a).

3.3.1.1 Identified COPCs Considered for Further Alternatives

A total of five samples were collected from the surface soil (0-0.5 ft bgs). Detections in surface soil samples above the NYSDEC SCOs identified the following COPCs (**Table 3-5A** and summarized below):

Constituents	Concentration Range	Frequency Exceeding Unrestricted	Frequency Exceeding POG	Frequency Exceeding Residential
BAA	0.063-2.7	1/5 (1 mg/kg)	1/5 (1 mg/kg)	1/5 (1 mg/kg)
BAP	0.071-1.9	1/5 (1 mg/kg)	0/5 (22 mg/kg)	1/5 (1 mg/kg)
BBF	0.1-2.6	1/5 (1 mg/kg)	1/5 (1.7 mg/kg)	1/5 (1 mg/kg)
BKF	0.037-1.1	1/5 (0.8 mg/kg)	0/5 (1.7 mg/kg)	1/5 (1 mg/kg)
Chrysene	0.088-2.4	1/5 (1 mg/kg)	1/5 (1 mg/kg)	1/5 (1 mg/kg)
Indeno	0.047-0.87	1/5 (0.5 mg/kg)	0/5 (8.2 mg/kg)	1/5 (0.5 mg/kg)
Mercury	0.113-0.217	1/5 (0.18 mg/kg)	0/5 (0.73 mg/kg)	0/5 (0.81 mg/kg)

It should be noted, the PAHs identified above (BAA, BAP, BBF, BKF, Chrysene, Dibenzo, and Indeno) have been attributed to an ash pile from the neighboring property. No impacted source areas have been identified on OU-3 and PAHs are present only in this individual sample. Due to their exceedances of Residential Use SCOs and accessibility, these PAHs have been retained as COPCs for further evaluation in surface soil (maximum depth 2 inches). No COPCs have been retained for consideration in near-surface or subsurface soils.

3.3.1.2 Other COPCs Not Considered for Further Remedial Alternatives

Although 4,4-DDE and 4,4-DDT were identified at concentrations above the NYSDEC Unrestricted Use SCOs, pesticides were not used in historical operations associated with the OU and are more consistent with the use of the neighboring property (e.g., property maintenance). Furthermore, the NYSDEC SCOs for Unrestricted Use is

based on the Protection of Ecological Resources and OU-3 does not have a pathway to ecological receptors (refer to Section 2.3.1). Due to these factors, 4,4-DDE and 4,4-DDT in soil at OU-3 are not considered for further remedial evaluation at this OU.

3.3.2 OU-3 Groundwater

No significant source areas were identified in soils at OU-3. Two groundwater samples taken from temporary wells during the Data Gap Investigation detected VOCs (acetone), SVOCs (BAA, BAP, BBF, BKF, chrysene, and indeno) and metals (iron, arsenic, beryllium, cadmium, chromium, cobalt, lead, mercury, and thallium) above the GWQS (**Figure 3-7, Table 3-5**). Additional examination of specific groundwater concentrations for OU-3 is provided in **Appendix B-6**, as well as included in the RIR Revision 2 (Arcadis 2021a).

3.3.2.1 Other COPCs for OU-3 Groundwater Not Considered for Further Remedial Alternatives

One groundwater sample from a temporary well (OU3SB02) was identified that contained SVOCs (BAA, BAP, BBF, BKF, chrysene, and indeno) exceeding the GWQS. This sample is identified as the location of the trash burning area and soil sample results were below background concentrations for the OU (refer to Section 3.2). For collection of this groundwater sample, a 3-volume purge was implemented at the temporary soil boring with no well development and turbidity readings were not recorded; therefore, it is suspected that a high amount of particulate matter containing adsorbed SVOCs were left over from the drilling process. Since this exceedance has only been detected at this solitary point, it is not believed that this sample is representative of groundwater quality at OU-3.

Furthermore, evidence suggests detected concentrations of metals at some upgradient and downgradient locations may be artificially elevated due to entrainment of sediment in the groundwater samples. An important line of evidence supporting this theory is the fact that detected concentrations of aluminum, which occur above the solubility limit in many samples. Metals such as aluminum, iron, sodium, magnesium, and manganese are abundant in the earth's crust and are components of many common minerals. Samples containing entrained sediment as a sampling artifact will exhibit higher-than-actual concentrations of any metals comprising the sediments because the acid added to preserve samples will dissolve the entrained minerals, liberating metals.

Due to these factors, groundwater at OU-3 is not proposed for further remedial evaluation.

4 Applicable or Relevant and Appropriate Requirements and Remedial Action Objectives

RAOs have been established to select and evaluate remedial alternatives that will protect human health and the environment; consider the requirements of the NYSDEC Standards, Criteria, and Guidance (SCGs); provide practical, cost-effective remediation; and utilize permanent remedies to the extent possible which can be expedited as required. Site-specific RAOs were developed based on the impacted media, the extent of identified impacts, and geologic and hydrogeologic conditions.

4.1 Identification of ARARs

Regulatory SCGs are divided into three categories: chemical-specific, action-specific, and location-specific applicable or relevant and appropriate requirements (ARARs). In order to be classified as an ARAR, federal and/or state laws must meet one of the following two requirements: (1) applicability or (2) relevance and appropriateness (USEPA, 1994). “Applicable” requirements are “those cleanups standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental, state environmental, or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance [40 C.F.R. 300.5].” “Relevant and appropriate” requirements are “those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental, state environmental, or facility siting laws that, while not ‘applicable’ to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a site, address problems or situations sufficiently similar to those encountered at a site that their use is well suited to the particular site [40 C.F.R. 300.5].”

4.1.1 Chemical Specific ARARs

Chemical-specific requirements establish health or risk-based concentration limits or ranges for specific hazardous substances in various environmental media. These standards provide media cleanup levels or a basis for calculating cleanup levels for COCs. Chemical-specific standards are also used to indicate an acceptable level of discharge, to determine treatment and disposal requirements for a particular remedial activity, and to assess the effectiveness of a response action. The potential chemical specific ARARs are presented in **Table 4-1**.

4.1.2 Location Specific ARARs

Location-specific requirements set restrictions on the types of response activities that can be performed based on specific site characteristics or location. Location-specific standards provide a basis for assessing restrictions during the formulation and evaluation of site-specific remedies. Response actions may be restricted or precluded based on siting laws for hazardous waste facilities and based on proximity to man-made features such as landfill, disposal area, and/or local historic buildings. Potential location-specific standards are included in **Table 4-2**.

4.1.3 Action Specific ARARs

Action-specific requirements set controls or restrictions on the design, implementation, and performance of waste management actions. These standards specify performance levels, actions, or technologies and specific levels for

discharge of residual chemicals. They also provide a basis for assessing the feasibility and effectiveness of the remedial alternatives. The potential action-specific standards identified for remedial action are presented in **Table 4-3**.

4.2 Remedial Action Objectives

RAOs are criteria used to evaluate potential remedial options relative to their capacity to protect human health and the environment. The RAOs were developed based on the Generic RAOs provided by the NYSDEC. The following RAOs have been established:

4.2.1 RAOs for Public Health and Protection

- Prevent ingestion/direct contact with contaminated soil during future development.
- Prevent inhalation exposure to contaminants volatilization from soil.
- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with and inhalation of volatiles from groundwater.

4.2.2 RAOs for Environment

- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.
- Prevent migration of contaminants that would result in groundwater contamination.
- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.

4.3 Identification of Chemicals of Concern

Remedial investigations completed at OU-1D, OU-1E and OU-3 have identified COPCs with concentrations above the applicable NYSDEC SCOs and/or NYS GWQS which require further action. The COCs defined below were selected based on the spatial frequency of their detections above NYSDEC SCOs or NYS GWQS and being identified as causing probable impact due to on-site sources.

4.3.1 OU-1D Soil

Based on review of soil data for OU-1D, the following COCs exceeding the NYSDEC SCOs have been identified for remediation:

- SVOCs – BAA, BAP, BBF, BKF, chrysene, dibenzo and indeno, and,
- Metals – arsenic, lead, mercury, and vanadium.

4.3.2 OU-1D Groundwater

Based on review of groundwater data for OU-1D, arsenic is remaining in excess of the NYS GWQS. Since soil remediation is anticipated to be completed, it is expected that impacts to groundwater from soil will be reduced and/or eliminated; therefore, no further remedial evaluation is recommended for groundwater.

4.3.3 OU-1E Soil

Based on review of soil data for OU-1E, the following COCs exceeding the NYSDEC SCOs have been identified for remediation:

- SVOCs – BAA, BAP, BBF, BKF, chrysene, dibenzo, indeno, and phenol
- Metals – arsenic and mercury.

4.3.4 OU-1E Groundwater

Based on review of groundwater data for OU-1E, the following COCs exceeding the NYS GWQS have been identified for remediation:

- VOCs – cis- and trans-1,2-dichloroethene⁴ (DCE) and TCE,
- SVOCs – 1,4-dioxane, and hexachlorobutadiene

4.3.5 OU-3 Soil

Based on review of soil data for OU-3, the following exceeding the NYSDEC SCOs have been identified for remediation:

- SVOCs – BAA, BAP, BBF, BKF, chrysene, and indeno
- Metals – Mercury

4.3.6 OU-3 Groundwater

No COCs have been identified for OU-3 Groundwater.

4.4 Identification of Cleanup Goals

All three OU parcels are currently zoned under “PI - Planned Industrial” by the Dutchess County Department of Planning and Development. Surrounding properties are mostly zoned residential: R-15 and R-20 in the Beacon Hills District, which is located to the southeast of OU-1E. OU-1D and OU-3 have residential properties immediately adjacent are likely best suited to fit into the community as such. These properties are being referred to as “Residential Property” Parcels.

Future land use differs depending on site topography and the unique environmental features of each OU associated with the Site. Currently, exact future uses are unknown; therefore, potential future receptors may include residents, commercial/industrial workers, recreational users, and trespassers.

In this FS, the risks and hazards for the current and future anticipated use of the Site are anticipated as follows:

- OU-1D has both an on-site and off-site component associated with future land use.

⁴ Cis- and trans-1,2-DCE have been retained as COCs due to historical detections of 1,2-DCE in OU-1E and their identification as constituents.

- Within the Residential Property Parcel (on-site), the target NYSDEC SCO is planned to be residential which includes being protective of residents, commercial/industrial workers, recreational users, and trespassers.
- OU-1D off-site is anticipated to remain an active rail line and the restricted-residential NYSDEC SCO will be targeted for this land use which includes being protective of commercial/industrial workers, recreational users, and trespassers.
- OU-1E is anticipated to be remediated to the restricted-residential NYSDEC SCO which includes being protective of commercial/industrial workers, recreational users, and trespassers.
- OU-3 is anticipated to be remediated to the unrestricted NYSDEC SCOs which includes being used without imposed restrictions, such as environmental easement or other land use controls for protection of public health, groundwater, or ecological resources.

4.5 Area of Attainment

The Area of Attainment is defined as the portion of the OU proposed for remediation to achieve site RAOs. The Area of Attainment is evaluated based on the results of on-site data collected during various investigations at each OU. The Area of Attainment for each OU will be reevaluated within a pre-design investigation to confirm extents.

4.5.1 OU-1D Soil

Two separate areas of attainment are proposed for OU-1D. The on-site area of attainment for OU-1D has been identified based on exceedances of COCs in soil above the NYSDEC SCOs for Residential Use within surface, near surface and subsurface soil and arsenic above the NYS GWQS within the OU property boundary. The off-site area of attainment for OU-1D has been identified based on concentrations identified in soil of COCs above the NYSDEC SCOs for Industrial Use within surface, near surface and subsurface soils within the OU property boundary. The proposed areas of attainment are illustrated on **Figure 4-1**.

A pre-design investigation will be conducted in a step-out approach to confirm the extent of the on-site area of attainment. The pre-design investigation may include collection of soil samples along the right-of-way to determine the extent of impacts.

While arsenic has been retained as a COC due to its frequency and concentrations, arsenic potentially along or beneath the roadway are not anticipated to be related to site sources. Studies conducted have indicated elevated concentrations of certain metals, including arsenic, may be present in glass beads used in the manufacturing of reflective roadway markings (paint). Furthermore, ash residue from power plants or other offsite sources, known to contain arsenic, is often incorporated into cement or other construction materials used for roadway applications (Nriagu and Pacyna 1988). These materials may leach from roadways during rain events, thus contributing to arsenic in surrounding soil and groundwater.

Vehicles travelling Washington Avenue may also contribute to arsenic concentrations in the soil surrounding the roadway. Particulates from external sources outside of CEMC's control, including byproducts from vehicular gasoline combustion (Kar et al. 2006), construction, industrial processes, and road maintenance activities (Johansson et al. 2009, Thorpe and Harrison 2008) may be deposited via wind or vehicular traffic in the area. Given the relatively low volume of traffic observed throughout the duration of project activities along Washington Avenue, deposition of particulates could expect to be higher than high volume roadways (Thorpe 2008), where

particulates are constantly re-suspended into the air. The particulates which are deposited on the roadway or adjacent areas may be directly carried to surrounding soils via runoff from Washington Avenue during rain events.

While the pre-design investigation may include samples along and/or beneath the roadway, it is expected that further remediation of arsenic in that area would not be the responsibility of CEMC due to the sources related to Washington Avenue.

4.5.2 OU-1E Soil

The area of attainment for OU-1E soil includes three hotspots identified in soil at subsurface areas and at the location of the former Chemical Burial Site 3. These areas have been identified based on initial evaluation of soil with COCs exceeding the NYSDEC SCOs for Restricted-Residential Use. The proposed area of attainment has been illustrated on **Figure 4-2**.

A pre-design investigation will be conducted in a step-out approach to confirm the extent of the area of attainment. The pre-design investigation may include collection of soil samples along the right-of-way to determine the extent of impacts.

As previously indicated in section 4.5.1, while on-site arsenic has been retained as a COC due to its frequency of detections and concentrations, arsenic detections along or beneath the roadway are not anticipated to be related to site sources. While the pre-design investigation may include samples along the roadway, it is expected that further remediation of arsenic in that area is not the responsibility of CEMC due to sources related to Washington Avenue.

4.5.3 OU-1E Groundwater

The area of attainment for OU-1E groundwater has been identified based on COCs above the NYS GWQS identified in the existing well network and from temporary well data as illustrated on **Figure 4-3**.

4.5.4 OU-3 Soil

The area of attainment for OU-3 soil includes one hotspot identified in surface soil. This area has been identified based on soil with COCs exceeding the NYSDEC SCOs for Residential Use. The proposed area of attainment has been illustrated on **Figure 4-4**.

A pre-design investigation will be conducted in a step-out approach to confirm the extent of the area of attainment.

5 Identification and Screening of Remedial Technologies

This section identifies potentially applicable technologies and process options for each of the RAOs outlined above and develops remedial alternatives for the TRCB. These technologies and alternatives were derived from professional experience with the COCs, and technologies identified in other Records of Decision, the Federal Remediation Technologies Roundtable Remediation Technologies Screening Matrix (www.frtr.gov), as well as guidance documents from the Interstate Technology and Regulatory Council and the NYSDEC DER-10.

5.1 General Response Actions

General Response Actions (GRAs) are process categories of remedial actions that may be implemented alone or in combination to satisfy the remediation goals. Appropriate GRAs are developed based on the Site-specific: RAOs, conditions, and COCs. Potential response action technologies and process options are identified and evaluated based on technical feasibility. The retained process options are screened based on effectiveness, implementability, and cost to determine which process options should be used in the development of the Remedial Actions.

5.1.1 Soil GRAs

Potential GRAs for soil at OU-1D, OU-1E and OU-3 include:

- No Action,
- Institutional Controls (ICs),
- Engineering Controls (ECs),
- Removal/Disposal/Discharge,
- In-situ treatment, and,
- Ex-situ treatment.

Details pertaining to technologies associated with each potential soil GRA are presented on **Table 5-1, 5-2 and 5-3** for OU-1D, OU-1E and OU-3, respectively.

5.1.2 Groundwater GRAs

Potential GRAs for groundwater at OU-1E include:

- No Action
- ICs,
- ECs,
- Removal/Disposal/Discharge,
- Long-term Monitoring,
- In-Situ Treatment, and,

- Ex-Situ Treatment.

Details pertaining to technologies associated with each potential groundwater GRAs are presented on **Table 5-4** for OU-1E.

5.2 Technology Screening

GRAs were examined for potential use at each of the OUs. To determine proposed remedial alternatives to be evaluated, a technology screening was performed to evaluate the applicability of a technology with respect to the OU. This initial technology screening evaluated the technologies' implementability, effectiveness, and general cost.

Tables 5-1 through 5-4 present all the technologies evaluated for soil and groundwater based on each OU. Furthermore, descriptions and rationale are provided for why a technology was retained to develop the proposed remedial alternatives for a specific OU.

6 Development of Remedial Alternatives

Remedial alternatives must achieve the RAOs identified for the Site. Remedial alternatives were developed by evaluating the technologies retained based on effectiveness, implementability, and cost. Of these criteria, implementability and effectiveness of the technology were the most critical. Combined alternatives are evaluated based on the nine threshold criteria identified in Section 6.5

6.1 OU-1D Soil

The following alternatives were identified as potential remedial alternatives that may be used at OU-1D to reduce the volumes of impacted soil and protect public health and the environment. Additional detail is provided in **Table 6-1**.

6.1.1 Alternative 1. No Action

This alternative is considered as required by the NYSDEC to set a baseline control case for no action performed at the OU. As part of this alternative, no remedial actions will be taken to remove, treat, or control impacted media or to avoid further human or ecological contact with impacted media. The No Action alternative would not prevent potential exposure to constituents in surface or subsurface material, sediments, or groundwater.

6.1.2 Alternative 2. Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal with IC/ECs for Exceedances of Industrial SCOs Off-Site

Excavation would be performed to a maximum depth of 4 ft bgs (approximately 4,200 cubic yards), where SVOCs and metals are in exceedance of the NYSDEC SCOs for Residential Use within the Residential Parcel Boundary (On-Site; **Figure 6-1**). Excavations would be backfilled with clean fill and vegetated. Outside of the residential parcel boundary (Off-Site) would be excavated to 2 ft bgs (approximately 120 cubic yards) and a permeable soil cover system would be installed consisting of eighteen inches of clean fill, six inches of topsoil and vegetation as illustrated on **Figure 6-1**.

An institutional control in the form of an environmental easement would be executed designating the off-site area as restricted-residential. The permeable soil cover system will be subject to a Site Management Plan requiring ongoing (i.e., annual) monitoring with reporting. An estimate of the costs associated with this alternative have been identified in **Appendix C-1A**.

Prior to remediation, a pre-design investigation would be performed to confirm the limits of the area of attainment. Additionally, negotiations with Metro-North Railroad would be required in order to gain access and complete remediation of the off-site area of attainment.

6.1.3 Alternative 3. Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal for Exceedances of Unrestricted SCOs Off-Site

Excavation would be performed down to a maximum depth of 4 ft bgs (approximately 4,200 cubic yards) to remove SVOCs and metals in excess of NYSDEC SCOs for Residential Use within the Residential Parcel Boundary (On-Site; **Figure 6-1**). Excavations would be backfilled with clean fill, topsoil and vegetated. Outside the residential parcel boundary (Off-Site), excavation would occur to 12 ft bgs (approximately 710 cubic yards), where subsurface soils are in exceedance of the NYSDEC SCOs for Unrestricted Use as illustrated on **Figure 6-1**. An estimate of the costs associated with this alternative have been identified in **Appendix C-1B**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment. Additionally, shoring and sloping techniques will likely be required to ensure the safety of the construction worker and integrity of the railroad tracks and infrastructure adjacent to them during excavation.

6.1.4 Alternative 4. Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal with IC/ECs for Exceedances of Industrial SCOs Off-Site

All soil exceeding the NYSDEC Unrestricted Use SCOs within the residential parcel boundary (On-Site) would be excavated within the area of attainment (approximately 5,180 cubic yards, **Figure 6-2**). Following the removal, excavations would be backfilled with clean fill and vegetated. Outside the residential parcel boundary (Off-Site) would be excavated to 2 ft bgs (approximately 120 cubic yards) and a permeable soil cover system would be installed consisting of eighteen inches of clean fill, six inches of topsoil and vegetation.

An institutional control in the form of an environmental easement would be executed designating the Off-Site area as restricted-residential. The permeable soil cover system will be subject to a Site Management Plan requiring ongoing (i.e., annual) monitoring with reporting. An estimate of the costs associated with this alternative have been identified in **Appendix C-1C**.

Prior to remediation, a pre-design investigation would be performed to refine the limits of the area of attainment. Additionally, negotiations with Metro-North Railroad would be required to gain access and complete remediation of the Off-Site area of attainment.

6.1.5 Alternative 5. Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal for Exceedances of Unrestricted SCOs Off-Site

All soil exceeding the NYSDEC Unrestricted Use SCOs would be excavated within and outside of the residential property boundary (approximately 5,890 cubic yards; **Figure 6-2**). Following the removal, excavations would be backfilled with clean fill and vegetated. This alternative will prevent exposure to contaminants in material by complete removal of the source. An estimate of the costs associated with this alternative have been identified in **Appendix C-1D**.

Prior to remediation, a pre-design investigation would be performed to refine the limits of the area of attainment. Additionally, shoring and sloping techniques would likely be required to ensure the safety of the construction worker and integrity of the railroad tracks and infrastructure adjacent to them during excavation.

6.2 OU-1E Soil and Groundwater

The following alternatives were identified as potential remedial alternatives that may be used at OU-1E to reduce the volumes of impacted soil and groundwater and to protect public health and the environment. Additional detail is provided in **Table 6-2**.

6.2.1 Alternative 1. No Action

This alternative is considered as required by the NYSDEC to set a baseline control case for no action performed at the OU. As part of this alternative, no remedial actions will be taken to remove, treat, or control impacted media or to avoid further human or ecological contact with impacted media. The No Action alternative would not prevent potential exposure to constituents in surface or subsurface material, sediments, or groundwater.

6.2.2 Alternative 2. In-Situ Soil Mixing and Removal of Soil for Exceedances of Restricted-Residential SCOs & Monitored Natural Attenuation for Groundwater

All soil exceeding the NYSDEC Restricted-Residential Use SCOs for PAHs will be treated via mixing with sodium permanganate to a depth of 2 ft bgs (approximately 2,490 cubic yards). In locations where arsenic or mercury is present on site, excavation would be performed down to a maximum depth of 2 ft bgs (approximately 4,190 cubic yards) to remove arsenic or mercury in excess of NYSDEC SCOs for Restricted-Residential Use (**Figure 6-3**). A permeable soil cover consisting of eighteen inches of clean fill, six inches topsoil and vegetation is present at the former Chemical Burial Site 3 Area.

The permeable soil cover will be subject to a Site Management Plan requiring ongoing (i.e., annual) monitoring with reporting following remediation and an institutional control in the form of an environmental easement would be executed designating this OU as restricted-residential. Additionally, a long-term monitoring (LTM) plan would be carried out using an existing monitoring well network to track COC trends and ensure protection of potential receptors. COCs and biogeochemical parameters would be monitored to ensure natural attenuation continues to reduce COCs and COCs are not migrating offsite in groundwater. An IC in the form of a groundwater usage restriction of overburden groundwater would be implemented to restrict future withdrawal and use of overburden groundwater. An estimate of the costs associated with this soil and groundwater alternative have been identified in **Appendix C-2A**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment and collect samples to confirm reagents for in-situ soil mixing. Specifically, a bench scale test will be performed to identify the ideal percentage of reagents, dosing requirements and effectiveness.

6.2.3 Alternative 3. Removal and Disposal of Soil for Exceedances of Restricted-Residential SCOs & Monitored Natural Attenuation for Groundwater

Excavation would be performed down to a maximum depth of 2 ft bgs (approximately 6,670 cubic yards) to remove PAHs and metals in excess of NYSDEC SCOs for Restricted-Residential Use (**Figure 6-3**). Following the removal, excavations would be backfilled with clean fill and vegetated. The permeable soil cover system consisting of 18 inches of clean fill, 6 inches topsoil, and vegetation present at the former Chemical Burial Site 3 Area will be left in place.

The permeable soil cover system will be subject to a Site Management Plan requiring ongoing (i.e., annual) monitoring with reporting following remediation and an institutional control in the form of an environmental easement would be executed designating these OU as restricted-residential. Additionally, a LTM plan would be carried out using an existing monitoring well network to track COC trends and ensure protection of potential receptors. COCs and biogeochemical parameters would be monitored to ensure natural attenuation continues to reduce COCs and COCs are not migrating offsite in groundwater. An IC in the form of a groundwater usage restriction of overburden groundwater would be implemented to restrict future withdrawal and use of overburden groundwater. An estimate of the costs associated with this soil and groundwater alternative have been identified in **Appendix C-2B**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment.

6.2.4 Alternative 4. Removal and Disposal of Soil for Exceedances of Unrestricted SCOs & Monitored Natural Attenuation for Groundwater

All soil exceeding the NYSDEC Unrestricted Use SCOs, currently to a maximum depth of 6 ft bgs (approximately 169,493 cubic yards), would be excavated (**Figure 6-4**). Following the removal, excavations would be backfilled with clean fill, topsoil and vegetated. This alternative will prevent exposure to contaminants in material by removal of the source.

Following soil excavation, a long-term monitoring (LTM) plan would be carried out using an existing monitoring well network to track COC trends and ensure protection of potential receptors. COCs and biogeochemical parameters would be monitored to ensure natural attenuation continues to reduce COCs and COCs are not migrating offsite in groundwater. An IC in the form of a groundwater usage restriction of overburden groundwater would be implemented to restrict future withdrawal and use of overburden groundwater. An estimate of the costs associated with this soil and groundwater alternative have been identified in **Appendix C-2C**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment. Additionally, shoring and sloping techniques will be evaluated to ensure the safety of the construction worker and ecological habitat during excavation.

6.2.5 Alternative 5. In-Situ Soil Mixing and Removal of Soil for Exceedances of Restricted-Residential SCOs & In-Situ Bioremediation of Groundwater

All soil exceeding the NYSDEC Restricted-Residential Use SCOs will be treated via mixing with sodium permanganate to treat PAHs to a depth of 2 ft bgs (approximately 2,490 cubic yards). In locations where arsenic or mercury are identified at the site, excavation would be performed down to a maximum depth of 2 ft bgs (approximately 4,190 cubic yards) to remove arsenic or mercury in excess of NYSDEC SCOs for Restricted-Residential Use (**Figure 6-3**). The permeable soil cover system consisting of eighteen inches of clean fill, six inches topsoil and vegetation present at the former Chemical Burial Site 3 Area at OU-1E will be left in place. In addition, an injection mechanism will be completed using a substrate to facilitate enhanced growth of microbes to increase degradation of chlorinated solvents in groundwater. During implementation, COCs would be monitored via the existing monitoring well network to ensure degradation of COCs and to confirm COCs are not migrating offsite.

The permeable soil cover system will be subject to a Site Management Plan requiring ongoing (i.e., annual) monitoring with reporting following remediation and an institutional control in the form of an environmental easement would be executed designating these OU as restricted-residential. Additionally, an IC in the form of a groundwater usage restriction of overburden groundwater would be implemented to restrict future withdrawal and use of potentially impacted overburden groundwater. An estimate of the costs associated with this soil and overburden groundwater alternative have been identified in **Appendix C-2D**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment, identify the ideal location of the injection mechanism, and collect samples to confirm reagents for in-situ soil mixing. Specifically, a bench scale test will be performed to identify the ideal percentage of reagents, dosing requirements and effectiveness.

6.2.6 Alternative 6. Removal and Disposal of Soil for Exceedances of Restricted-Residential SCOs & In-Situ Bioremediation of Groundwater

Excavation would be performed down to a maximum depth of 2 ft bgs to remove PAHs and metals in excess of NYSDEC SCOs for Restricted-Residential Use (approximately 6,670 cubic yards, **Figure 6-3**). Following the removal, excavations would be backfilled with clean fill, topsoil and vegetated. The permeable soil cover system consisting of eighteen inches of clean fill, six inches topsoil and vegetation present at the former Chemical Burial Site 3 Area at OU-1E will be left in place. In addition, an injection mechanism will be completed using a substrate to facilitate enhanced growth of microbes to increase degradation of chlorinated solvents. During implementation, COCs would be monitored via the existing monitoring well network to ensure degradation of COCs and to confirm COCs are not migrating offsite.

The permeable soil cover system will be subject to a Site Management Plan requiring ongoing (i.e., annual) monitoring with reporting following remediation and an IC in the form of an environmental easement would be executed designating OU-1E as restricted-residential. Additionally, an IC in the form of a groundwater usage restriction of overburden groundwater would be implemented to restrict future withdrawal and use of potentially

impacted overburden groundwater. An estimate of the costs associated with this soil and overburden groundwater alternative have been identified in **Appendix C-2E**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment and to determine the ideal location of the injection mechanism.

6.2.7 Alternative 7. Removal and Disposal of Soil for Exceedances of Unrestricted SCOs & In-Situ Bioremediation of Groundwater

All soil exceeding the NYSDEC Unrestricted Use SCOs, currently to a maximum depth of 6 ft bgs, would be excavated (approximately 169,493 cubic yards, **Figure 6-4**). Following the removal, excavations would be backfilled with clean fill and vegetated. This alternative will prevent exposure to contaminants in material by removal of the source. In addition, an injection mechanism will be completed using a substrate to facilitate enhanced growth of microbes to increase degradation of chlorinated solvents. During implementation, COCs would be monitored via the existing monitoring well network to ensure degradation of COCs and to confirm COCs are not migrating offsite in groundwater.

An IC in the form of a groundwater usage restriction of overburden groundwater would be implemented to restrict future withdrawal and use of potentially impacted overburden groundwater. An estimate of the costs associated with this alternative have been identified in **Appendix C-2F**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment. Additionally, shoring and sloping techniques will be evaluated to ensure the safety of the construction worker and ecological habitat during excavation.

6.3 OU-3 Soil

The following alternatives were identified as potential remedial alternatives that may be used at OU-3 to reduce the volumes of impacted soil and protect public health and the environment. Additional detail is provided in **Table 6-3**.

6.3.1 Alternative 1. No Action

This alternative is considered as required by the NYSDEC to set a baseline control case for no action performed at the OU. As part of this alternative, no remedial actions will be taken to remove, treat, or control impacted media or to avoid further human or ecological contact with impacted media. The No Action alternative would not prevent potential exposure to constituents in surface or subsurface material, sediments, or groundwater.

6.3.2 Alternative 2. Removal and Disposal for Exceedances of Residential SCOs

Excavation would be performed down to a maximum depth of 0.5 ft bgs to remove SVOCs in excess of NYSDEC SCOs for Residential Use (approximately 110 cubic yards, **Figure 6-5**). Following the removal, excavations would be backfilled with clean fill, topsoil and vegetated. An estimate of the costs associated with this alternative have been identified in **Appendix C-3A**.

Prior to remediation, a pre-design investigation may be performed to refine the extent of the area of attainment.

6.3.3 Alternative 3. Removal and Disposal for Exceedances of Unrestricted SCOs

All soil exceeding the NYSDEC Unrestricted Use SCOs would be excavated (approximately 720 cubic yards, **Figure 6-6**). Following the removal, excavations would be backfilled with clean fill, topsoil and vegetated. This alternative will prevent exposure to contaminants in material by removal of the source. An estimate of the costs associated with this alternative have been identified in **Appendix C-3B**.

Prior to remediation, a pre-design investigation would be performed to refine the extent of the area of attainment.

6.4 Analysis of Remedial Alternatives

Evaluation criteria used for comparison have been assembled in accordance with DER-10. Review of the various alternatives against these criteria, indicates the relative strengths and weaknesses among the alternatives. The results of this assessment serve as the basis for selecting the recommended remedy in Section 8. Each of the identified alternatives is evaluated pursuant to the following evaluation criteria.

- **Ability to Meet Standards, Criteria, and Guidance (SCGs):** the ability of the remedial alternative to meet the SCGs is considered.
- **Overall Protectiveness of the Public Health and the Environment:** Addresses the remedial alternative's ability to provide adequate protection of human health and the environment. This evaluation assesses how exposure pathways are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls in both the short and long term.
- **Long-term Effectiveness and Permanence:** Evaluates the alternative for the long-term effectiveness and permanence the action provides by considering the risks that may remain following completion of the remedial alternative, along with the adequacy and reliability of control measures.
- **Short-term Impact and Effectiveness:** Assesses effects and risks to human health and the environment related to construction and implementation of each alternative. Considerations include short-term impacts on workers and the community during the remedial action, potential environmental effects of the remedial action, effectiveness of mitigation measures, and the time until protection is achieved through consideration of near-term improvements resulting from remedy implementation.
- **Implementability (Technical Feasibility):** Evaluates the ease or difficulty of implementing the alternative by considering the technical feasibility, administrative feasibility, and availability of services and materials required for implementation.
- **Cost Effectiveness:** Evaluates present-worth (present day dollars) of direct and indirect capital, operating, and maintenance costs of implementing an alternative. The total cost of each alternative represents the sum of the direct capital costs (materials, equipment, and labor), indirect capital costs (engineering, licenses/permits, and contingency allowances), and OM&M costs. OM&M costs may include operating labor, energy, chemicals, and sampling and analysis. These costs will be estimated with an anticipated accuracy between -30% to +50% in accordance with the USEPA document entitled *Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA* (USEPA 1988).
- **Land Use:** Assesses the current, intended, and reasonably anticipated future land uses of the Site and surrounding community.

6.5 Individual Analysis of Alternatives

Tables 6-1 through 6-3 present the individual analysis for OU-1D Soil, OU-1E Soil and Groundwater and OU-3 Soil. These tables provide a detailed analysis of the relative strengths and weaknesses for each of the remedial alternatives when compared to the evaluation criteria.

Note, Alternative No. 1 - No Action is intended to serve as a baseline by which to compare the risk reduction effectiveness of other potential alternatives during the comparative analysis. In the No Action Alternative, no remedial actions would be performed, and no efforts would be undertaken.

6.6 Comparative Analysis of Remedial Alternatives

Each of the remedial actions were evaluated on an individual basis. This section provides a comparative analysis of the expected performance of each alternative relative to the other alternatives to identify their respective advantages and disadvantages. To compare the Remedial Actions, ratings of poor, adequate, good, or excellent were assigned to each of the evaluation criteria used in the analysis of the alternatives.

Ratings were assigned based on a subjective appraisal of the degree to which each alternative met the criteria.

6.6.1 OU-1D Soil

The area of attainment established for OU-1D is presented on **Figure 5-1**. The remedial alternatives proposed for OU-1D Soil are (**Table 6-1**):

- Alternative 1 – No Action
- Alternative 2 – Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Industrial SCOS Off-Site (**Figure 6-1**)
- Alternative 3 – Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal of Soil for Exceedances of Unrestricted SCOS Off-Site (**Figure 6-1**)
- Alternative 4 – Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Industrial SCOS Off-Site (**Figure 6-2**)
- Alternative 5 – Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal of Soil for Exceedances of Unrestricted SCOS Off-Site (**Figure 6-2**)

6.6.1.1 Ability to Meet SCGs

All the alternatives will meet location-specific and action-specific ARARs. Alternatives 1 through 4 leave some portion of soil in excess of chemical-specific ARARs in-situ. Alternative 1 does not take any action to limit exposure to these remaining soils. Alternatives 2, 3, and 4 take measures to restrict exposure pathways to remaining COCs. Alternative 5 removes all of the soil exceeding NYSDEC SCOs for Unrestricted Use, which would meet the chemical specific ARARs for soil. Thus, ratings for the ability to meet SCGs for the alternatives are as follows: Alternative 1 – poor; Alternative 2, 3, and 4 – good; and Alternative 5 - excellent.

6.6.1.2 Overall Protectiveness of the Public Health and Environment

Alternative 1 provides no additional protection of human health and the environment compared to current levels of protection. Alternatives 2 through 5 afford various levels of protection of human health and the environment because they reduce risk by eliminating exposure pathways. Alternatives 2, 3, and 4 retain at least some portion of the soil above the NYSDEC SCOs for Unrestricted Use. Alternative 5 removes all the soil above NYSDEC SCOs for Unrestricted Use. Thus, ratings for the overall protectiveness of public health and environment for the alternatives are as follows: Alternative 1 – poor; Alternatives 2, 3, and 4 – good; Alternative 5 – excellent.

6.6.1.3 Long-Term Reliability and Effectiveness

Alternative 1 is not effective or reliable for the long-term. Alternative 2 provides removal of COCs in the surface, near surface, and subsurface on-site, and restricts access to subsurface soils off-site, which are effective methods to manage potential exposure. Alternative 3 provides removal of COCs in the surface, near surface, and subsurface on-site, and removes all the soil above NYSDEC SCOs for Unrestricted Use off-site, which are effective methods to manage potential exposure. Alternative 4 removes all the soil above NYSDEC SCOs for Unrestricted Use on-site and restricts access to subsurface soils off-site. Alternative 5 removes all COCs to the NYSDEC Unrestricted SCOs, which is the most effective in eliminating the potential for exposure to COCs onsite. Thus, ratings for long-term reliability and effectiveness for the alternatives are as follows: Alternative 1 – poor; Alternative 2 - adequate; Alternatives 3 and 4 – good; and Alternative 5 - excellent.

6.6.1.4 Reduction of Toxicity, Mobility or Volume through Treatment

Alternative 1 does not contribute to the reduction in the toxicity, mobility, or volume of impacts. Alternative 2 through 5 reduce the volume of contaminants present and would reduce the toxicity of wastes onsite through reduction; however, all material would be transferred off-site as opposed to treatment. Thus, ratings for reduction of toxicity, mobility or volume through treatment for the alternatives are as follows: Alternative 1 – poor; Alternative 2 – adequate; Alternatives 3 and 4 – good; and Alternative 5 – Excellent.

6.6.1.5 Short-term Impact and Effectiveness

Alternative 1 would minimize exposure to workers, surrounding communities, and the environment by doing nothing. The remaining alternatives provide varying levels of short-term protection. Alternatives 2 and 4, which consist of the removal and/or treatment of soil exceeding the NYSDEC SCOs, are effective in the short term, but due to additional handling and transportation of soil, there is greater potential for exposure to COCs by workers, surrounding communities, and the environment. Alternatives 3 and 5 include an increased risk due to the larger excavations near the rail lines. Thus, ratings for short term impact and effectiveness for the alternatives are as follows: Alternative 1 – poor; Alternatives 3 and 5 – Adequate; and Alternatives 2 and 4 – good.

6.6.1.6 Technical Feasibility/Implementability

Alternative 1 is the most readily implementable alternative. Alternatives 2 and 4 are easily implementable using traditional construction equipment. Alternatives 3 and 5 require preparations and specific use of various health and safety measures that will need to be addressed prior to and during implementation of these alternative. Thus, ratings for technical feasibility/implementability for the alternatives are as follows: Alternatives 3 and 5 – poor; Alternative 4 - good; and Alternative 1 and 2 – excellent.

6.6.1.7 Cost Effectiveness

There is no cost associated with Alternative 1, and the Alternative 1 is not considered to be effective. Costs for Alternative 2 has moderate capital cost with on-going monitoring and maintenance. Alternative 4 has higher capital costs with on-going monitoring and maintenance. Alternatives 3 through 5 have high capital cost associated with the impacts to the active rail line. Thus, ratings for cost effectiveness for the alternatives are as follows: Alternative 1 and 5 – poor; Alternative 3 – adequate; Alternative 4 – good and Alternative 2 - excellent.

6.6.1.8 Land Use

Alternative 1 does not comply with current or anticipated land uses. Alternative 2 provides additional protection to the community, while permitting residential development under a future use and restricts the off-site area that is currently an active rail line. Alternative 3 and 4 would allow residential and unrestricted use of the OU, with restrictions to the off-site area under Alternative 4. Alternative 5 would result in full unrestricted use of the rail line and the OU. Thus, ratings for the land use for the alternatives are as follows: Alternative 1 – Poor; Alternatives 2 and 4 – Adequate and Alternatives 3 and 5– good.

6.6.2 OU-1E Soil and Groundwater

The area of attainment established for OU-1E soil is presented on **Figure 5-2**. The remedial alternatives proposed for OU-1E soil are (**Table 6-2**):

- Alternative 1 – No Action
- Alternative 2 – In-Situ Soil Mixing and Removal for Exceedances of Restricted-Residential SCOs & Monitored Natural Attenuation for Groundwater (**Figure 6-3**)
- Alternative 3 – Removal and Off-Site Disposal for Exceedances of Restricted-Residential SCOs & Monitored Natural Attenuation for Groundwater (**Figure 6-3**)
- Alternative 4 – Removal and Disposal for Exceedances of Unrestricted SCOs & Monitored Natural Attenuation for Groundwater (**Figure 6-4**)
- Alternative 5 – In-Situ Soil Mixing and Removal for Exceedances of Restricted-Residential SCOs & In-Situ Bioremediation (**Figure 6-3**)
- Alternative 6 – Removal and Off-Site Disposal for Exceedances of Restricted-Residential SCOs & In-Situ Bioremediation (**Figure 6-3**)
- Alternative 7 – Removal and Disposal for Exceedances of Unrestricted SCOs & In-Situ Bioremediation (**Figure 6-4**)

6.6.2.1 Ability to Meet SCGs

All the alternatives will meet location-specific and action-specific ARARs. Alternatives 1, 2, 3, 5, and 6 leave some portion of soil in excess of chemical-specific ARARs in-situ. Alternative 1 does not take any action to limit exposure to these remaining soils. Alternatives 2 and 5 take measures to restrict exposure pathways and treats the soil in-situ. Alternatives 3, 4, 6 and 7 take measures to restrict exposure pathways to remaining COCs through removal. Alternatives 4 and 7 remove all of the soil exceeding NYSDEC SCOs for Unrestricted Use, which would meet the chemical specific ARARs for soil.

Alternative 1 would meet the location-specific and action-specific groundwater ARARs since it does not require any intrusive activities at the Site. Alternative 1 would not meet the chemical specific ARARs because no monitoring will be performed to confirm compliance with RAOs. Monitoring would be performed under Alternatives 2 through 7 to assess compliance with chemical specific ARARs. Alternatives 5 through 7 are a more active remedy that would reduce the timeline to achieve compliance with chemical specific ARARs. These alternatives would meet location-specific and action-specific ARARs, though additional intrusion activities will be performed to install injection wells.

Thus, ratings for the ability to meet SCGs for the alternatives are as follows: Alternative 1 – poor; Alternatives 2, 3, 5, and 6 – adequate; and Alternative 4 – good and Alternative 7 – excellent.

6.6.2.2 Overall Protectiveness of the Public Health and Environment

Alternative 1 provides no additional protection of human health and the environment compared to current levels of protection. Alternatives 2 through 7 afford various levels of protection of human health and the environment because they reduce risk by eliminating exposure pathways. Alternatives 2, 3, 5, and 6 retain at least some portion of the soil above the NYSDEC SCOs for Unrestricted Use onsite with. Alternatives 4 and 7 remove all the soil above NYSDEC SCOs for Unrestricted Use.

Alternative 1 provides no additional protection of human health and the environment compared to current levels of protection. Alternatives 2 through 7 use ICs and employs MNA to document and confirm that concentrations are stable and decreasing. Alternatives 5, 6, and 7 use active treatment to stimulate attenuation processes and would document and confirm that concentrations are stable and decreasing.

Thus, ratings for the overall protectiveness of public health and environment for the alternatives are as follows: Alternative 1 – poor; Alternatives 2, 3, 5 and 6 – adequate; Alternative 4 - good and Alternative 7 – excellent.

6.6.2.3 Long-Term Reliability and Effectiveness

Alternative 1 is not effective or reliable for the long-term. Alternative 2, and 5 provide treatment and use of engineering controls to prevent exposure to COCs in the surface and near surface. Alternatives 3 and 6 provide removal of COCs in the surface and near surface, which is an effective method to manage potential exposure. Alternatives 4 and 7 remove all COCs to the NYSDEC Unrestricted SCOs, which is the most effective in eliminating the potential for exposure to COCs onsite.

Alternative 1 is not considered effective or permanent. Alternatives 2, 3, and 4 is anticipated to be an effective alternative by demonstrating natural attenuation processes through monitoring when coupled with a groundwater use restriction to protect against the potential exposure to COCs by prohibiting the use of groundwater; however, the anticipated monitoring timeframe is ten years. Alternatives 5, 6, and 7 are anticipated to be as effective at reducing the concentrations of the COCs identified, but in a reduced timeframe – 1-4 years depending on the results of bench testing.

Thus, ratings for long-term reliability and effectiveness for the alternatives are as follows: Alternative 1 – poor; Alternatives 2, 3, and 4 - good; and Alternatives 5, 6, and 7 – excellent.

6.6.2.4 Reduction of Toxicity, Mobility or Volume through Treatment

Alternative 1 does not contribute to the reduction in the toxicity, mobility, or volume of impacts. Alternatives 2 and 5 reduce the soil toxicity and mobility at depth through treatment. Alternatives 2 through 7 reduce the volume of

contaminants present onsite and thus would reduce the toxicity of wastes onsite through reduction; however, the volume is transported off-site for disposal rather than treated.

Natural attenuation processes may reduce mobility, toxicity, or volume of contaminated ground water; however, Alternative 1 would not utilize monitoring of these processes to demonstrate protectiveness. Alternatives 2 through 7 would utilize monitoring to demonstrate and confirm natural attenuation phenomena. Alternatives 5, 6, and 7 would additionally use substrate addition to actively enhance natural attenuation processes.

As a result, ratings for reduction of toxicity, mobility or volume through treatment for the alternatives are as follows: Alternative 1 – poor; Alternatives 2 through 6 – good; and Alternative 7 – excellent.

6.6.2.5 Short-term Impact and Effectiveness

Alternative 1 would minimize exposure to workers, surrounding communities, and the environment by doing nothing; however, impacts would remain in place at the site. The remaining alternatives provide varying levels of short-term protection. Alternatives 2 and 5 specifically require handling of additional chemicals by construction workers resulting in an extra level of concern. Alternatives 3, 4, 6 and 7 consist of the removal of soil exceeding the NYSDEC SCOs and are effective in the short term; however, due to additional handling and transportation of soil, there is greater potential for exposure to COCs by workers, surrounding communities, and the environment.

No actions will be taken under Alternative 1 to achieve compliance with RAOs. Alternatives 2 through 4 would not pose additional short-term risks to the community or the environment; however, the installation of additional injection and monitoring wells under Alternatives 5 through 7, would result in exposure risks to workers performing monitoring.

Thus, ratings for short term impact and effectiveness for the alternatives are as follows: Alternative 1 – poor; Alternatives 5, 6, and 7 – adequate; Alternative 2 - good and Alternatives 3 and 4 – excellent.

6.6.2.6 Technical Feasibility/Implementability

Alternative 1 is the most readily implementable alternative. Alternatives 2 and 5 require preparations and specific use of various health and safety measures that will need to be addressed prior to and during implementation of these alternative. Alternatives 3, 4, 6, and 7 are easily implementable using traditional construction equipment; however, implementation of Alternatives 4 and 7 would lead to the destruction of wetlands and forested areas.

Alternative 1 is easily implementable. Alternatives 2 through 4 would be readily implementable through administrative coordination and use of the existing well network for MNA. Alternative 5 through 7 would involve additional investigation of groundwater. require additional installation of treatment wells for an injection system and require preparations and specific use of various health and safety measures that will need to be addressed prior to and during implementation.

Thus, ratings for technical feasibility/implementability for the alternatives are as follows: Alternative 4 and 7 – poor; Alternatives 2, 5, and 6 – adequate; Alternative 3 - good; and Alternative 1 – excellent.

6.6.2.7 Cost Effectiveness

There is no cost associated with Alternative 1, and the Alternative 1 is not considered to be effective. Costs for Alternatives 2 and 5 include moderate capital cost with imported material for mixing. Alternatives 3 and 6 costs

are greater than Alternative 2 due excavation and import of clean fill. Alternatives 4 and 7 involves extremely high capital cost for large scale excavation including destruction of natural wetlands.

There is no cost associated with groundwater in Alternative 1, and the alternative may be effective over time. Costs for groundwater in Alternatives 2, 3, and 4 provide additional long-term costs for recurring investigation. The cost for groundwater in Alternatives 5, 6, and 7 is significantly greater than Alternatives 2, 3, and 4, without a commensurate rise in effectiveness.

Thus, ratings for cost effectiveness for the alternatives are as follows: Alternatives 1 and 7 – poor; Alternatives 4 and 6 – Adequate; Alternative 3 and 5 – good; and, Alternatives 2 – excellent.

6.6.2.8 Land Use

Alternative 1 does not comply with current or anticipated land uses. Alternative 2, 3, 5, and 6 would limit access to restricted-residential use for the OU. Alternatives 4 and 7 would allow unrestricted use of the OU, however, these Alternatives result in the widespread destruction of ecological habitats including wetlands and forested areas.

Alternative 1 does not comply with current or anticipated land uses for groundwater. Alternatives 2 through 7 limit/restrict groundwater use temporarily until COCs are able to naturally attenuate or be treated to background concentrations.

Thus, ratings for the land use for the alternatives are as follows: Alternative 1 – Poor; Alternative 4 – adequate; Alternatives 2, 5 and 7 – good; and Alternative 3 and 6 – Excellent.

6.6.3 OU-3 Soil

The area of attainment established for OU-3 soil is presented on **Figure 5-4**. The remedial alternatives proposed for OU-3 soil are (**Table 6-3**):

- Alternative 1 – No Action
- Alternative 2 – Removal and Off-Site Disposal for Exceedances of Residential SCOs (**Figure 6-7**)
- Alternative 3 – Removal and Disposal for Exceedances of Unrestricted SCOs (**Figure 6-8**)

6.6.3.1 Ability to Meet SCGs

All the alternatives will meet location-specific and action-specific ARARs. Alternatives 1 and 2 leave some portion of soil in excess of chemical-specific ARARs in-situ. Alternative 1 does not take any action to limit exposure to these remaining soils. Alternative 2 takes measures to restrict exposure pathways to remaining COCs. Alternative 3 removes all of the soil exceeding NYSDEC SCOs for Unrestricted Use, which would meet the chemical specific ARARs for soil. Thus, ratings for the ability to meet SCGs for the alternatives are as follows: Alternative 1 – poor; Alternative 2 – good; and Alternative 3 - excellent.

6.6.3.2 Overall Protectiveness of the Public Health and Environment

Alternative 1 provides no additional protection of human health and the environment compared to current levels of protection. Alternatives 2 and 3 afford various levels of protection of human health and the environment because they reduce risk by eliminating exposure pathways. Alternative 2 retains at least some portion of the soil above the NYSDEC SCOs for Unrestricted Use onsite. Alternative 3 removes all the soil above NYSDEC SCOs for Residential and Unrestricted Use, respectively. Thus, ratings for the overall protectiveness of public health and

environment for the alternatives are as follows: Alternative 1 – poor; Alternatives 2 – good; Alternative 3 – excellent.

6.6.3.3 Long-Term Reliability and Effectiveness

Alternative 1 is not effective or reliable for the long-term. Alternative 2 provides removal of COCs in the surface, which is an effective method to manage potential exposure. Alternative 3 removes all COCs to the NYSDEC Unrestricted SCOs, which is the most effective in eliminating the potential for exposure to COCs onsite. Thus, ratings for long-term reliability and effectiveness for the alternatives are as follows: Alternative 1 – poor; Alternative 2 – good; and Alternatives 3 – excellent.

6.6.3.4 Reduction of Toxicity, Mobility or Volume through Treatment

Alternative 1 does not contribute to the reduction in the toxicity, mobility, or volume of impacts. Alternative 2 and 3 reduce the volume of contaminants present and would reduce the toxicity of wastes onsite through reduction. Thus, ratings for reduction of toxicity, mobility or volume through treatment for the alternatives are as follows: Alternatives 1 – poor; and Alternative 2 and 3 – adequate.

6.6.3.5 Short-term Impact and Effectiveness

Alternative 1 would minimize exposure to workers, surrounding communities, and the environment by doing nothing. The remaining alternatives provide varying levels of short-term protection. Alternatives 2 and 3, which consist of the removal and/or treatment of soil exceeding the NYSDEC SCOs, are effective in the short term, but due to additional handling and transportation of soil, there is greater potential for exposure to COCs by workers, surrounding communities, and the environment. Thus, ratings for short term impact and effectiveness for the alternatives are as follows: Alternative 1 – poor; and Alternatives 2 and 3 – good.

6.6.3.6 Technical Feasibility/Implementability

Alternative 1 is the most readily implementable alternative. Alternative 2 and 3 is easily implementable using traditional construction equipment. Thus, ratings for technical feasibility/implementability for the alternatives are as follows: Alternative 2 and 3 – good; and Alternative 1 – excellent.

6.6.3.7 Cost Effectiveness

There is no cost associated with Alternative 1, and the Alternative 1 is not considered to be effective. Costs for Alternatives 2 has moderate capital cost with on-going monitoring and maintenance. Alternative 3 has higher capital cost than Alternative 2. Thus, ratings for cost effectiveness for the alternatives are as follows: Alternative 1 – poor; Alternative 3 – adequate; and Alternative 2 – good.

6.6.3.8 Land Use

Alternative 1 does not comply with current or anticipated land uses. Alternative 2 provides additional protection to the community, while permitting residential development under a future use. Alternative 3 would allow for unrestricted use of the OU. Thus, ratings for the land use for the alternatives are as follows: Alternative 1 – Poor; Alternative 2 – good and Alternative 3 – excellent.

7 Summary of Recommended Remedial Alternatives

This section presents the recommended remedial alternative for soil and groundwater associated with OU-1D, OU-1E and OU-3, as well as the justification. The overall goal of the remedial alternatives is to meet the RAOs set forth in Section 4.2 for the Area of Attainment established in Section 4.4.

The recommended remedial alternatives are based on an evaluation of the criteria consistent with DER-10 and 6 NYCRR Part 375. Based on evaluation of the remedial alternatives and the screening criteria, the recommended remedial alternatives are as follows:

- **OU-1D:** Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Industrial SCOs Off-Site (Alternative 2) for soil.
- **OU-1E:** Removal and Off-Site Disposal for Exceedances of Restricted-Residential SCOs for soil & Monitored Natural Attenuation for groundwater (Alternative 3).
- **OU-3:** Removal and Off-Site Disposal for Exceedances of Unrestricted Use SCOs for soil (Alternative 3).

These recommended remedial alternatives will meet the RAOs while providing the optimum balance among alternatives with respect to the evaluation criteria. These alternatives are implementable, the most effective in meeting the RAOs assuming the NYSDEC SCOs for Residential Use are the selected cleanup goals, and provide good value. The recommended remedial alternatives are briefly described below:

7.1 Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal of Soil with Institutional and Engineering Controls for Exceedances of Industrial SCOS Off-Site (OU-1D)

- A pre-design investigation would be performed to refine the extents of soil to be remediated within the area of attainment.
- Excavation of impacted soil to a maximum depth of 4 ft bgs.
- Placement of clean fill on-site and a permeable soil cover consisting of eighteen inches of clean fill, six inches of topsoil and vegetation off-site;
- Implementation of a soil management plan with environmental easement restricting the off-site area to restricted-residential; and

7.2 Removal and Off-Site Disposal of Soil for Exceedances of Restricted-Residential SCOs and Monitored Natural Attenuation of Groundwater (OU-1E)

- A pre-design investigation would be performed to refine the extents of soil to be remediated within the area of attainment.

- Excavation of impacted soil to a maximum depth of 2 ft bgs.
- Placement of clean fill on-site and a permeable soil cover consisting of eighteen inches of clean fill, six inches of topsoil and vegetation at the Former Chemical Burial Site 3;
- Implementation of a soil management plan with environmental easement restricting the Former Chemical Burial Site 3 area to restricted-residential.
- Ongoing evaluation of groundwater trends;
- Implementation of an overburden groundwater use restriction; and
- Continued monitoring of existing monitoring wells to observe concentration trends of COCs.

7.3 Removal and Off-Site Disposal of Soil for Exceedances of Unrestricted Use SCOs (OU-3)

- A pre-design investigation would be performed to identify the limits of soil to be remediated within the area of attainment.
- Excavation of impacted soil to a maximum depth of 1 ft bgs.
- Placement of clean fill on-site.

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Tables

Table 2-1A
Summary Statistics Compared to Unrestricted SCO - All Data Combined
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	Unrestricted Use SCO	Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	--	33 / 53 [62%]	0.024	--	--	27 / 99 [27%]	0.048	--	--
4-Methylphenol (p-Cresol)	0.33	16 / 53 [30%]	1.8	1/53	5.5	7 / 99 [7%]	0.22	0/99	0.67
Benzo(a)anthracene	1	51 / 53 [96%]	0.35	0/53	0.35	69 / 99 [70%]	0.19	0/99	0.19
Benzo(a)pyrene	1	51 / 53 [96%]	0.39	0/53	0.39	68 / 99 [69%]	0.28	0/99	0.28
Benzo(b)fluoranthene	1	52 / 53 [98%]	0.48	0/53	0.48	87 / 99 [88%]	0.39	0/99	0.39
Benzo(k)fluoranthene	0.8	47 / 53 [89%]	0.22	0/53	0.28	61 / 99 [62%]	0.18	0/99	0.23
Chrysene	1	51 / 53 [96%]	0.39	0/53	0.39	81 / 99 [82%]	0.22	0/99	0.22
Dibenz(a,h)anthracene	0.33	33 / 53 [62%]	0.073	0/53	0.22	37 / 99 [37%]	0.059	0/99	0.18
Indeno(1,2,3-cd)pyrene	0.5	51 / 53 [96%]	0.25	0/53	0.50	65 / 99 [66%]	0.22	0/99	0.44
Phenol	0.33	1 / 53 [2%]	0.075	0/53	0.23	2 / 99 [2%]	0.054	0/99	0.16
Pesticides									
4,4-DDD	0.0033	4 / 11 [36%]	0.0029	0/11	0.88	3 / 20 [15%]	0.0016	0/20	0.48
4,4-DDE	0.0033	9 / 11 [82%]	0.027	6/11	8.2	17 / 20 [85%]	0.0051	2/20	1.5
4,4-DDT	0.0033	10 / 11 [91%]	0.017	7/11	5.2	9 / 20 [45%]	0.0046	1/20	1.4
Endrin	0.014	1 / 11 [9%]	0.0018	0/11	0.13	1 / 20 [5%]	0.00048	0/20	0.03
Metals									
Arsenic	13	53 / 53 [100%]	13.6	1/53	1.0	99 / 99 [100%]	11.2	0/99	0.86
Barium	350	53 / 53 [100%]	305	0/53	0.87	99 / 99 [100%]	199	0/99	0.57
Cadmium	2.5	53 / 53 [100%]	0.94	0/53	0.38	99 / 99 [100%]	0.70	0/99	0.28
Chromium	30	53 / 53 [100%]	28.2	0/53	0.94	99 / 99 [100%]	33.1	3/99	1.1
Cobalt	--	53 / 53 [100%]	16.4	--	--	99 / 99 [100%]	29.5	--	--
Copper	50	53 / 53 [100%]	89.7	1/53	1.8	99 / 99 [100%]	72.9	1/99	1.5
Iron	--	53 / 53 [100%]	59000	--	--	99 / 99 [100%]	78200	--	--
Lead	63	53 / 53 [100%]	292	20/53	4.6	99 / 99 [100%]	445	5/99	7.1
Manganese	1600	53 / 53 [100%]	4530	2/53	2.8	99 / 99 [100%]	2850	4/99	1.8
Mercury	0.18	70 / 70 [100%]	0.46	13/70	2.5	129 / 129 [100%]	0.24	2/129	1.3
Nickel	30	53 / 53 [100%]	35.1	2/53	1.2	99 / 99 [100%]	47.9	8/99	1.6
Selenium	3.9	53 / 53 [100%]	1.5	0/53	0.38	99 / 99 [100%]	0.88	0/99	0.22
Silver	2	51 / 53 [96%]	0.61	0/53	0.30	85 / 99 [86%]	0.24	0/99	0.12
Vanadium	--	53 / 53 [100%]	53.8	--	--	99 / 99 [100%]	42.3	--	--
Zinc	109	53 / 53 [100%]	379	12/53	3.5	99 / 99 [100%]	237	9/99	2.2

Notes:

Highlight: at least one exceedance of the applicable unrestricted SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

‰: percent

Table 2-1B

Summary Statistics Compared to Residential SCO - All Data Combined

Chevron Environmental Management Company

Former Texaco Research Center Beacon

Glenham, NY

Analyte	375-6.8(b) & CP-51 Residential SCO	Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	0.41	33 / 53 [62%]	0.024	0/53	0.059	27 / 99 [27%]	0.048	0/99	0.12
4-Methylphenol (p-Cresol)	34	16 / 53 [30%]	1.8	0/53	0.05	7 / 99 [7%]	0.22	0/99	0.006
Benzo(a)anthracene	1	51 / 53 [96%]	0.35	0/53	0.35	69 / 99 [70%]	0.19	0/99	0.19
Benzo(a)pyrene	1	51 / 53 [96%]	0.39	0/53	0.39	68 / 99 [69%]	0.28	0/99	0.28
Benzo(b)fluoranthene	1	52 / 53 [98%]	0.48	0/53	0.48	87 / 99 [88%]	0.39	0/99	0.39
Benzo(k)fluoranthene	1	47 / 53 [89%]	0.22	0/53	0.22	61 / 99 [62%]	0.18	0/99	0.18
Chrysene	1	51 / 53 [96%]	0.39	0/53	0.39	81 / 99 [82%]	0.22	0/99	0.22
Dibenz(a,h)anthracene	0.33	33 / 53 [62%]	0.073	0/53	0.22	37 / 99 [37%]	0.059	0/99	0.18
Indeno(1,2,3-cd)pyrene	0.5	51 / 53 [96%]	0.25	0/53	0.50	65 / 99 [66%]	0.22	0/99	0.44
Phenol	100	1 / 53 [2%]	0.075	0/53	0.0008	2 / 99 [2%]	0.054	0/99	0.0005
Pesticides									
4,4-DDD	2.6	4 / 11 [36%]	0.0029	0/11	0.001	3 / 20 [15%]	0.0016	0/20	0.0006
4,4-DDE	1.8	9 / 11 [82%]	0.027	0/11	0.02	17 / 20 [85%]	0.0051	0/20	0.003
4,4-DDT	1.7	10 / 11 [91%]	0.017	0/11	0.01	9 / 20 [45%]	0.0046	0/20	0.003
Endrin	2.2	1 / 11 [9%]	0.0018	0/11	0.0008	1 / 20 [5%]	0.00048	0/20	0.0002
Metals									
Arsenic	16	53 / 53 [100%]	13.6	0/53	0.85	99 / 99 [100%]	11.2	0/99	0.70
Barium	350	53 / 53 [100%]	305	0/53	0.87	99 / 99 [100%]	199	0/99	0.57
Cadmium	2.5	53 / 53 [100%]	0.94	0/53	0.38	99 / 99 [100%]	0.70	0/99	0.28
Chromium	36	53 / 53 [100%]	28.2	0/53	0.78	99 / 99 [100%]	33.1	0/99	0.92
Cobalt	30	53 / 53 [100%]	16.4	0/53	0.55	99 / 99 [100%]	29.5	0/99	0.98
Copper	270	53 / 53 [100%]	89.7	0/53	0.33	99 / 99 [100%]	72.9	0/99	0.27
Iron	2000	53 / 53 [100%]	59000	53/53	29.5	99 / 99 [100%]	78200	99/99	39.1
Lead	400	53 / 53 [100%]	292	0/53	0.73	99 / 99 [100%]	445	1/99	1.1
Manganese	2000	53 / 53 [100%]	4530	2/53	2.3	99 / 99 [100%]	2850	2/99	1.4
Mercury	0.81	70 / 70 [100%]	0.46	0/70	0.56	129 / 129 [100%]	0.24	0/129	0.29
Nickel	140	53 / 53 [100%]	35.1	0/53	0.25	99 / 99 [100%]	47.9	0/99	0.34
Selenium	36	53 / 53 [100%]	1.5	0/53	0.04	99 / 99 [100%]	0.88	0/99	0.02
Silver	36	51 / 53 [96%]	0.61	0/53	0.02	85 / 99 [86%]	0.24	0/99	0.007
Vanadium	100	53 / 53 [100%]	53.8	0/53	0.54	99 / 99 [100%]	42.3	0/99	0.42
Zinc	2200	53 / 53 [100%]	379	0/53	0.17	99 / 99 [100%]	237	0/99	0.11

Notes:

Highlight: at least one exceedance of the applicable residential SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

%: percent

Table 2-2A
Summary Statistics Compared to Unrestricted SCO - Parcel 1
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	Unrestricted Use SCO	Site Area(s): OU-1A				Soil Type: Chatfield-Hollis Complex			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	--	8 / 10 [80%]	0.013	--	--	6 / 21 [29%]	0.048	--	--
4-Methylphenol (p-Cresol)	0.33	0 / 10 [0%]	--	0/10	--	0 / 21 [0%]	--	0/21	--
Benzo(a)anthracene	1	10 / 10 [100%]	0.35	0/10	0.35	20 / 21 [95%]	0.14	0/21	0.14
Benzo(a)pyrene	1	10 / 10 [100%]	0.39	0/10	0.39	20 / 21 [95%]	0.17	0/21	0.17
Benzo(b)fluoranthene	1	10 / 10 [100%]	0.48	0/10	0.48	21 / 21 [100%]	0.23	0/21	0.23
Benzo(k)fluoranthene	0.8	10 / 10 [100%]	0.22	0/10	0.28	19 / 21 [90%]	0.11	0/21	0.14
Chrysene	1	10 / 10 [100%]	0.39	0/10	0.39	20 / 21 [95%]	0.17	0/21	0.17
Dibenz(a,h)anthracene	0.33	10 / 10 [100%]	0.056	0/10	0.17	12 / 21 [57%]	0.037	0/21	0.11
Indeno(1,2,3-cd)pyrene	0.5	10 / 10 [100%]	0.25	0/10	0.50	20 / 21 [95%]	0.11	0/21	0.22
Phenol	0.33	0 / 10 [0%]	--	0/10	--	0 / 21 [0%]	--	0/21	--
Pesticides									
4,4-DDD	0.0033	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
4,4-DDE	0.0033	2 / 2 [100%]	0.011	2/2	3.3	4 / 4 [100%]	0.0051	1/4	1.5
4,4-DDT	0.0033	2 / 2 [100%]	0.0093	2/2	2.8	2 / 4 [50%]	0.0046	1/4	1.4
Endrin	0.014	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	13	10 / 10 [100%]	12.1	0/10	0.93	21 / 21 [100%]	11.2	0/21	0.86
Barium	350	10 / 10 [100%]	247	0/10	0.71	21 / 21 [100%]	174	0/21	0.50
Cadmium	2.5	10 / 10 [100%]	0.90	0/10	0.36	21 / 21 [100%]	0.70	0/21	0.28
Chromium	30	10 / 10 [100%]	28.2	0/10	0.94	21 / 21 [100%]	23.5	0/21	0.78
Cobalt	--	10 / 10 [100%]	13.5	--	--	21 / 21 [100%]	13.6	--	--
Copper	50	10 / 10 [100%]	89.7	1/10	1.8	21 / 21 [100%]	42.8	0/21	0.86
Iron	--	10 / 10 [100%]	34300	--	--	21 / 21 [100%]	34400	--	--
Lead	63	10 / 10 [100%]	292	7/10	4.6	21 / 21 [100%]	445	5/21	7.1
Manganese	1600	10 / 10 [100%]	1160	0/10	0.73	21 / 21 [100%]	953	0/21	0.60
Mercury	0.18	14 / 14 [100%]	0.16	0/14	0.88	27 / 27 [100%]	0.18	1/27	1.0
Nickel	30	10 / 10 [100%]	30.5	1/10	1.0	21 / 21 [100%]	29	0/21	0.97
Selenium	3.9	10 / 10 [100%]	1.1	0/10	0.29	21 / 21 [100%]	0.62	0/21	0.16
Silver	2	10 / 10 [100%]	0.61	0/10	0.30	19 / 21 [90%]	0.24	0/21	0.12
Vanadium	--	10 / 10 [100%]	43.7	--	--	21 / 21 [100%]	34.4	--	--
Zinc	109	10 / 10 [100%]	379	8/10	3.5	21 / 21 [100%]	237	5/21	2.2

Notes:

Highlight: at least one exceedance of the applicable unrestricted SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

‰: percent

Table 2-2B
Summary Statistics Compared to Residential SCO - Parcel 1
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	375-6.8(b) & CP-51 Residential SCO	Site Area(s): OU-1A				Soil Type: Chatfield-Hollis Complex			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	0.41	8 / 10 [80%]	0.013	0/10	0.032	6 / 21 [29%]	0.048	0/21	0.12
4-Methylphenol (p-Cresol)	34	0 / 10 [0%]	--	0/10	--	0 / 21 [0%]	--	0/21	--
Benzo(a)anthracene	1	10 / 10 [100%]	0.35	0/10	0.35	20 / 21 [95%]	0.14	0/21	0.14
Benzo(a)pyrene	1	10 / 10 [100%]	0.39	0/10	0.39	20 / 21 [95%]	0.17	0/21	0.17
Benzo(b)fluoranthene	1	10 / 10 [100%]	0.48	0/10	0.48	21 / 21 [100%]	0.23	0/21	0.23
Benzo(k)fluoranthene	1	10 / 10 [100%]	0.22	0/10	0.22	19 / 21 [90%]	0.11	0/21	0.11
Chrysene	1	10 / 10 [100%]	0.39	0/10	0.39	20 / 21 [95%]	0.17	0/21	0.17
Dibenz(a,h)anthracene	0.33	10 / 10 [100%]	0.056	0/10	0.17	12 / 21 [57%]	0.037	0/21	0.11
Indeno(1,2,3-cd)pyrene	0.5	10 / 10 [100%]	0.25	0/10	0.50	20 / 21 [95%]	0.11	0/21	0.22
Phenol	100	0 / 10 [0%]	--	0/10	--	0 / 21 [0%]	--	0/21	--
Pesticides									
4,4-DDD	2.6	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
4,4-DDE	1.8	2 / 2 [100%]	0.011	0/2	0.006	4 / 4 [100%]	0.0051	0/4	0.003
4,4-DDT	1.7	2 / 2 [100%]	0.0093	0/2	0.005	2 / 4 [50%]	0.0046	0/4	0.003
Endrin	2.2	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	16	10 / 10 [100%]	12.1	0/10	0.76	21 / 21 [100%]	11.2	0/21	0.70
Barium	350	10 / 10 [100%]	247	0/10	0.71	21 / 21 [100%]	174	0/21	0.50
Cadmium	2.5	10 / 10 [100%]	0.90	0/10	0.36	21 / 21 [100%]	0.70	0/21	0.28
Chromium	36	10 / 10 [100%]	28.2	0/10	0.78	21 / 21 [100%]	23.5	0/21	0.65
Cobalt	30	10 / 10 [100%]	13.5	0/10	0.45	21 / 21 [100%]	13.6	0/21	0.45
Copper	270	10 / 10 [100%]	89.7	0/10	0.33	21 / 21 [100%]	42.8	0/21	0.16
Iron	2000	10 / 10 [100%]	34300	10/10	17.2	21 / 21 [100%]	34400	21/21	17.2
Lead	400	10 / 10 [100%]	292	0/10	0.73	21 / 21 [100%]	445	1/21	1.1
Manganese	2000	10 / 10 [100%]	1160	0/10	0.58	21 / 21 [100%]	953	0/21	0.48
Mercury	0.81	14 / 14 [100%]	0.16	0/14	0.20	27 / 27 [100%]	0.18	0/27	0.22
Nickel	140	10 / 10 [100%]	30.5	0/10	0.22	21 / 21 [100%]	29	0/21	0.21
Selenium	36	10 / 10 [100%]	1.1	0/10	0.03	21 / 21 [100%]	0.62	0/21	0.02
Silver	36	10 / 10 [100%]	0.61	0/10	0.02	19 / 21 [90%]	0.24	0/21	0.007
Vanadium	100	10 / 10 [100%]	43.7	0/10	0.44	21 / 21 [100%]	34.4	0/21	0.34
Zinc	2200	10 / 10 [100%]	379	0/10	0.17	21 / 21 [100%]	237	0/21	0.11

Notes:

Highlight: at least one exceedance of the applicable residential SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

%: percent

Table 2-3A
Summary Statistics Compared to Unrestricted SCO - Parcel 2
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	Unrestricted Use SCO	Site Area(s): OU-1C, OU-1D, OU-2, and portions of OU-4				Soil Type: Udorthents			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	--	5 / 10 [50%]	0.024	--	--	16 / 19 [84%]	0.037	--	--
4-Methylphenol (p-Cresol)	0.33	3 / 10 [30%]	0.13	0/10	0.39	2 / 19 [11%]	0.068	0/19	0.21
Benzo(a)anthracene	1	10 / 10 [100%]	0.2	0/10	0.20	19 / 19 [100%]	0.19	0/19	0.19
Benzo(a)pyrene	1	10 / 10 [100%]	0.19	0/10	0.19	19 / 19 [100%]	0.28	0/19	0.28
Benzo(b)fluoranthene	1	10 / 10 [100%]	0.28	0/10	0.28	19 / 19 [100%]	0.39	0/19	0.39
Benzo(k)fluoranthene	0.8	10 / 10 [100%]	0.13	0/10	0.16	19 / 19 [100%]	0.18	0/19	0.23
Chrysene	1	10 / 10 [100%]	0.21	0/10	0.21	19 / 19 [100%]	0.22	0/19	0.22
Dibenz(a,h)anthracene	0.33	10 / 10 [100%]	0.042	0/10	0.13	18 / 19 [95%]	0.059	0/19	0.18
Indeno(1,2,3-cd)pyrene	0.5	10 / 10 [100%]	0.14	0/10	0.28	19 / 19 [100%]	0.22	0/19	0.44
Phenol	0.33	1 / 10 [10%]	0.075	0/10	0.23	1 / 19 [5%]	0.029	0/19	0.09
Pesticides									
4,4-DDD	0.0033	0 / 2 [0%]	--	0/2	--	1 / 4 [25%]	0.0012	0/4	0.36
4,4-DDE	0.0033	2 / 2 [100%]	0.027	2/2	8.2	4 / 4 [100%]	0.004	1/4	1.2
4,4-DDT	0.0033	2 / 2 [100%]	0.0085	2/2	2.6	4 / 4 [100%]	0.0022	0/4	0.67
Endrin	0.014	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	13	10 / 10 [100%]	9.88	0/10	0.76	19 / 19 [100%]	10.6	0/19	0.82
Barium	350	10 / 10 [100%]	84.1	0/10	0.24	19 / 19 [100%]	114	0/19	0.33
Cadmium	2.5	10 / 10 [100%]	0.223	0/10	0.09	19 / 19 [100%]	0.24	0/19	0.10
Chromium	30	10 / 10 [100%]	17.1	0/10	0.57	19 / 19 [100%]	33.1	1/19	1.1
Cobalt	--	10 / 10 [100%]	12.1	--	--	19 / 19 [100%]	17.2	--	--
Copper	50	10 / 10 [100%]	34.2	0/10	0.68	19 / 19 [100%]	72.9	1/19	1.5
Iron	--	10 / 10 [100%]	34300	--	--	19 / 19 [100%]	37300	--	--
Lead	63	10 / 10 [100%]	31.2	0/10	0.50	19 / 19 [100%]	39.8	0/19	0.63
Manganese	1600	10 / 10 [100%]	1580	0/10	0.99	19 / 19 [100%]	2150	2/19	1.3
Mercury	0.18	13 / 13 [100%]	0.0554	0/13	0.31	26 / 26 [100%]	0.0872	0/26	0.48
Nickel	30	10 / 10 [100%]	27	0/10	0.90	19 / 19 [100%]	34.4	3/19	1.1
Selenium	3.9	10 / 10 [100%]	0.302	0/10	0.08	19 / 19 [100%]	0.509	0/19	0.13
Silver	2	8 / 10 [80%]	0.0782	0/10	0.04	19 / 19 [100%]	0.0853	0/19	0.04
Vanadium	--	10 / 10 [100%]	29.9	--	--	19 / 19 [100%]	42.3	--	--
Zinc	109	10 / 10 [100%]	110	1/10	1.0	19 / 19 [100%]	160	3/19	1.5

Notes:

Highlight: at least one exceedance of the applicable unrestricted SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

%: percent

Table 2-3B
Summary Statistics Compared to Residential SCO - Parcel 2
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	375-6.8(b) & CP-51 Residential SCO	Site Area(s): OU-1C, OU-1D, OU-2, and portions of OU-4				Soil Type: Udorthents			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	0.41	5 / 10 [50%]	0.024	0/10	0.06	16 / 19 [84%]	0.037	0/19	0.09
4-Methylphenol (p-Cresol)	34	3 / 10 [30%]	0.13	0/10	0.004	2 / 19 [11%]	0.068	0/19	0.002
Benzo(a)anthracene	1	10 / 10 [100%]	0.2	0/10	0.20	19 / 19 [100%]	0.19	0/19	0.19
Benzo(a)pyrene	1	10 / 10 [100%]	0.19	0/10	0.19	19 / 19 [100%]	0.28	0/19	0.28
Benzo(b)fluoranthene	1	10 / 10 [100%]	0.28	0/10	0.28	19 / 19 [100%]	0.39	0/19	0.39
Benzo(k)fluoranthene	1	10 / 10 [100%]	0.13	0/10	0.13	19 / 19 [100%]	0.18	0/19	0.18
Chrysene	1	10 / 10 [100%]	0.21	0/10	0.21	19 / 19 [100%]	0.22	0/19	0.22
Dibenz(a,h)anthracene	0.33	10 / 10 [100%]	0.042	0/10	0.13	18 / 19 [95%]	0.059	0/19	0.18
Indeno(1,2,3-cd)pyrene	0.5	10 / 10 [100%]	0.14	0/10	0.28	19 / 19 [100%]	0.22	0/19	0.44
Phenol	100	1 / 10 [10%]	0.075	0/10	0.0008	1 / 19 [5%]	0.029	0/19	0.0003
Pesticides									
4,4-DDD	2.6	0 / 2 [0%]	--	0/2	--	1 / 4 [25%]	0.0012	0/4	0.0005
4,4-DDE	1.8	2 / 2 [100%]	0.027	0/2	0.02	4 / 4 [100%]	0.004	0/4	0.002
4,4-DDT	1.7	2 / 2 [100%]	0.0085	0/2	0.005	4 / 4 [100%]	0.0022	0/4	0.001
Endrin	2.2	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	16	10 / 10 [100%]	9.88	0/10	0.62	19 / 19 [100%]	10.6	0/19	0.66
Barium	350	10 / 10 [100%]	84.1	0/10	0.24	19 / 19 [100%]	114	0/19	0.33
Cadmium	2.5	10 / 10 [100%]	0.223	0/10	0.09	19 / 19 [100%]	0.24	0/19	0.10
Chromium	36	10 / 10 [100%]	17.1	0/10	0.48	19 / 19 [100%]	33.1	0/19	0.92
Cobalt	30	10 / 10 [100%]	12.1	0/10	0.40	19 / 19 [100%]	17.2	0/19	0.57
Copper	270	10 / 10 [100%]	34.2	0/10	0.13	19 / 19 [100%]	72.9	0/19	0.27
Iron	2000	10 / 10 [100%]	34300	10/10	17.2	19 / 19 [100%]	37300	19/19	18.7
Lead	400	10 / 10 [100%]	31.2	0/10	0.08	19 / 19 [100%]	39.8	0/19	0.10
Manganese	2000	10 / 10 [100%]	1580	0/10	0.79	19 / 19 [100%]	2150	1/19	1.1
Mercury	0.81	13 / 13 [100%]	0.0554	0/13	0.07	26 / 26 [100%]	0.0872	0/26	0.11
Nickel	140	10 / 10 [100%]	27	0/10	0.19	19 / 19 [100%]	34.4	0/19	0.25
Selenium	36	10 / 10 [100%]	0.302	0/10	0.01	19 / 19 [100%]	0.509	0/19	0.01
Silver	36	8 / 10 [80%]	0.0782	0/10	0.002	19 / 19 [100%]	0.0853	0/19	0.002
Vanadium	100	10 / 10 [100%]	29.9	0/10	0.30	19 / 19 [100%]	42.3	0/19	0.42
Zinc	2200	10 / 10 [100%]	110	0/10	0.05	19 / 19 [100%]	160	0/19	0.07

Notes:

Highlight: at least one exceedance of the applicable residential SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

%: percent

Table 2-4A
Summary Statistics Compared to Unrestricted SCO - Parcel 3
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	Unrestricted Use SCO	Site Area(s): Portions of OU-4				Soil Type: Bernardston silt loam, 15 to 25 % slopes			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	--	7 / 11 [64%]	0.014	--	--	0 / 21 [0%]	--	--	--
4-Methylphenol (p-Cresol)	0.33	3 / 11 [27%]	0.049	0/11	0.15	1 / 21 [5%]	0.034	0/21	0.10
Benzo(a)anthracene	1	11 / 11 [100%]	0.076	0/11	0.08	15 / 21 [71%]	0.016	0/21	0.02
Benzo(a)pyrene	1	11 / 11 [100%]	0.088	0/11	0.09	14 / 21 [67%]	0.023	0/21	0.02
Benzo(b)fluoranthene	1	11 / 11 [100%]	0.18	0/11	0.18	21 / 21 [100%]	0.033	0/21	0.03
Benzo(k)fluoranthene	0.8	11 / 11 [100%]	0.056	0/11	0.07	12 / 21 [57%]	0.012	0/21	0.02
Chrysene	1	11 / 11 [100%]	0.12	0/11	0.12	21 / 21 [100%]	0.025	0/21	0.03
Dibenz(a,h)anthracene	0.33	7 / 11 [64%]	0.018	0/11	0.05	5 / 21 [24%]	0.014	0/21	0.04
Indeno(1,2,3-cd)pyrene	0.5	11 / 11 [100%]	0.075	0/11	0.15	14 / 21 [67%]	0.017	0/21	0.03
Phenol	0.33	0 / 11 [0%]	--	0/11	--	0 / 21 [0%]	--	0/21	--
Pesticides									
4,4-DDD	0.0033	1 / 2 [50%]	0.0018	0/2	0.55	2 / 4 [50%]	0.0016	0/4	0.48
4,4-DDE	0.0033	2 / 2 [100%]	0.0054	1/2	1.6	4 / 4 [100%]	0.0022	0/4	0.67
4,4-DDT	0.0033	2 / 2 [100%]	0.0043	1/2	1.3	2 / 4 [50%]	0.0021	0/4	0.64
Endrin	0.014	1 / 2 [50%]	0.0018	0/2	0.13	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	13	11 / 11 [100%]	13.6	1/11	1.0	21 / 21 [100%]	6.18	0/21	0.48
Barium	350	11 / 11 [100%]	305	0/11	0.87	21 / 21 [100%]	199	0/21	0.57
Cadmium	2.5	11 / 11 [100%]	0.942	0/11	0.38	21 / 21 [100%]	0.419	0/21	0.17
Chromium	30	11 / 11 [100%]	21.5	0/11	0.72	21 / 21 [100%]	26.7	0/21	0.89
Cobalt	--	11 / 11 [100%]	7.52	--	--	21 / 21 [100%]	10.3	--	--
Copper	50	11 / 11 [100%]	41.7	0/11	0.83	21 / 21 [100%]	18.8	0/21	0.38
Iron	--	11 / 11 [100%]	59000	--	--	21 / 21 [100%]	38900	--	--
Lead	63	11 / 11 [100%]	74.4	4/11	1.2	21 / 21 [100%]	26.4	0/21	0.42
Manganese	1600	11 / 11 [100%]	4530	1/11	2.8	21 / 21 [100%]	2850	1/21	1.8
Mercury	0.18	14 / 14 [100%]	0.295	3/14	1.6	27 / 27 [100%]	0.14	0/27	0.78
Nickel	30	11 / 11 [100%]	35.1	1/11	1.2	21 / 21 [100%]	26.1	0/21	0.87
Selenium	3.9	11 / 11 [100%]	1.21	0/11	0.31	21 / 21 [100%]	0.521	0/21	0.13
Silver	2	11 / 11 [100%]	0.261	0/11	0.13	14 / 21 [67%]	0.115	0/21	0.06
Vanadium	--	11 / 11 [100%]	45.7	--	--	21 / 21 [100%]	30.6	--	--
Zinc	109	11 / 11 [100%]	146	2/11	1.3	21 / 21 [100%]	104	0/21	0.95

Notes:

Highlight: at least one exceedance of the applicable unrestricted SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane
4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene
4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane
mg/kg: milligrams per kilogram
SCO: Soil Cleanup Objective
%: percent

Table 2-4B
Summary Statistics Compared to Residential SCO - Parcel 3
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	375-6.8(b) & CP-51 Residential SCO	Site Area(s): Portions of OU-4				Soil Type: Bernardston silt loam, 15 to 25 % slopes			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	0.41	7 / 11 [64%]	0.014	0/11	0.03	0 / 21 [0%]	--	0/21	--
4-Methylphenol (p-Cresol)	34	3 / 11 [27%]	0.049	0/11	0.001	1 / 21 [5%]	0.034	0/21	0.001
Benzo(a)anthracene	1	11 / 11 [100%]	0.076	0/11	0.08	15 / 21 [71%]	0.016	0/21	0.02
Benzo(a)pyrene	1	11 / 11 [100%]	0.088	0/11	0.09	14 / 21 [67%]	0.023	0/21	0.02
Benzo(b)fluoranthene	1	11 / 11 [100%]	0.18	0/11	0.18	21 / 21 [100%]	0.033	0/21	0.03
Benzo(k)fluoranthene	1	11 / 11 [100%]	0.056	0/11	0.06	12 / 21 [57%]	0.012	0/21	0.01
Chrysene	1	11 / 11 [100%]	0.12	0/11	0.12	21 / 21 [100%]	0.025	0/21	0.03
Dibenz(a,h)anthracene	0.33	7 / 11 [64%]	0.018	0/11	0.05	5 / 21 [24%]	0.014	0/21	0.04
Indeno(1,2,3-cd)pyrene	0.5	11 / 11 [100%]	0.075	0/11	0.15	14 / 21 [67%]	0.017	0/21	0.03
Phenol	100	0 / 11 [0%]	--	0/11	--	0 / 21 [0%]	--	0/21	--
Pesticides									
4,4-DDD	2.6	1 / 2 [50%]	0.0018	0/2	0.0007	2 / 4 [50%]	0.0016	0/4	0.0006
4,4-DDE	1.8	2 / 2 [100%]	0.0054	0/2	0.003	4 / 4 [100%]	0.0022	0/4	0.001
4,4-DDT	1.7	2 / 2 [100%]	0.0043	0/2	0.003	2 / 4 [50%]	0.0021	0/4	0.001
Endrin	2.2	1 / 2 [50%]	0.0018	0/2	0.0008	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	16	11 / 11 [100%]	13.6	0/11	0.85	21 / 21 [100%]	6.18	0/21	0.39
Barium	350	11 / 11 [100%]	305	0/11	0.87	21 / 21 [100%]	199	0/21	0.57
Cadmium	2.5	11 / 11 [100%]	0.942	0/11	0.38	21 / 21 [100%]	0.419	0/21	0.17
Chromium	36	11 / 11 [100%]	21.5	0/11	0.60	21 / 21 [100%]	26.7	0/21	0.74
Cobalt	30	11 / 11 [100%]	7.52	0/11	0.25	21 / 21 [100%]	10.3	0/21	0.34
Copper	270	11 / 11 [100%]	41.7	0/11	0.15	21 / 21 [100%]	18.8	0/21	0.07
Iron	2000	11 / 11 [100%]	59000	11/11	29.5	21 / 21 [100%]	38900	21/21	19.5
Lead	400	11 / 11 [100%]	74.4	0/11	0.19	21 / 21 [100%]	26.4	0/21	0.07
Manganese	2000	11 / 11 [100%]	4530	1/11	2.3	21 / 21 [100%]	2850	1/21	1.4
Mercury	0.81	14 / 14 [100%]	0.295	0/14	0.36	27 / 27 [100%]	0.14	0/27	0.17
Nickel	140	11 / 11 [100%]	35.1	0/11	0.25	21 / 21 [100%]	26.1	0/21	0.19
Selenium	36	11 / 11 [100%]	1.21	0/11	0.03	21 / 21 [100%]	0.521	0/21	0.01
Silver	36	11 / 11 [100%]	0.261	0/11	0.007	14 / 21 [67%]	0.115	0/21	0.003
Vanadium	100	11 / 11 [100%]	45.7	0/11	0.46	21 / 21 [100%]	30.6	0/21	0.31
Zinc	2200	11 / 11 [100%]	146	0/11	0.07	21 / 21 [100%]	104	0/21	0.05

Notes:

Highlight: at least one exceedance of the applicable residential SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

%: percent

Table 2-5A
Summary Statistics Compared to Unrestricted SCO - Parcel 4
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	Unrestricted Use SCO	Site Area(s): OU-3 & portions of OU-1D, OU-1E, & OU-4				Soil Type: Pittstown silt loam, 8 to 15 % slopes			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	--	8 / 11 [73%]	0.012	--	--	2 / 21 [10%]	0.04	--	--
4-Methylphenol (p-Cresol)	0.33	7 / 11 [64%]	0.32	0/11	0.97	2 / 21 [10%]	0.22	0/21	0.67
Benzo(a)anthracene	1	9 / 11 [82%]	0.053	0/11	0.05	6 / 21 [29%]	0.027	0/21	0.03
Benzo(a)pyrene	1	9 / 11 [82%]	0.079	0/11	0.08	5 / 21 [24%]	0.034	0/21	0.03
Benzo(b)fluoranthene	1	10 / 11 [91%]	0.11	0/11	0.11	11 / 21 [52%]	0.06	0/21	0.06
Benzo(k)fluoranthene	0.8	8 / 11 [73%]	0.041	0/11	0.05	5 / 21 [24%]	0.02	0/21	0.03
Chrysene	1	10 / 11 [91%]	0.082	0/11	0.08	7 / 21 [33%]	0.048	0/21	0.05
Dibenz(a,h)anthracene	0.33	3 / 11 [27%]	0.021	0/11	0.06	1 / 21 [5%]	0.007	0/21	0.02
Indeno(1,2,3-cd)pyrene	0.5	9 / 11 [82%]	0.048	0/11	0.10	5 / 21 [24%]	0.029	0/21	0.06
Phenol	0.33	0 / 11 [0%]	--	0/11	--	1 / 21 [5%]	0.054	0/21	0.16
Pesticides									
4,4-DDD	0.0033	1 / 3 [33%]	0.002	0/3	0.61	0 / 4 [0%]	--	0/4	--
4,4-DDE	0.0033	1 / 3 [33%]	0.0022	0/3	0.67	1 / 4 [25%]	0.0032	0/4	0.97
4,4-DDT	0.0033	2 / 3 [67%]	0.0046	1/3	1.4	1 / 4 [25%]	0.0016	0/4	0.48
Endrin	0.014	0 / 3 [0%]	--	0/3	--	1 / 4 [25%]	0.00048	0/4	0.03
Metals									
Arsenic	13	11 / 11 [100%]	9.59	0/11	0.74	21 / 21 [100%]	8.7	0/21	0.67
Barium	350	11 / 11 [100%]	97.1	0/11	0.28	21 / 21 [100%]	150	0/21	0.43
Cadmium	2.5	11 / 11 [100%]	0.451	0/11	0.18	21 / 21 [100%]	0.285	0/21	0.11
Chromium	30	11 / 11 [100%]	21.4	0/11	0.71	21 / 21 [100%]	30.7	1/21	1.0
Cobalt	--	11 / 11 [100%]	11.5	--	--	21 / 21 [100%]	17.5	--	--
Copper	50	11 / 11 [100%]	21.9	0/11	0.44	21 / 21 [100%]	38.1	0/21	0.76
Iron	--	11 / 11 [100%]	26600	--	--	21 / 21 [100%]	35800	--	--
Lead	63	11 / 11 [100%]	68.1	2/11	1.1	21 / 21 [100%]	50.8	0/21	0.81
Manganese	1600	11 / 11 [100%]	1340	0/11	0.84	21 / 21 [100%]	1690	1/21	1.1
Mercury	0.18	14 / 14 [100%]	0.225	4/14	1.3	27 / 27 [100%]	0.151	0/27	0.84
Nickel	30	11 / 11 [100%]	25.7	0/11	0.86	21 / 21 [100%]	31.3	2/21	1.0
Selenium	3.9	11 / 11 [100%]	1.31	0/11	0.34	21 / 21 [100%]	0.875	0/21	0.22
Silver	2	11 / 11 [100%]	0.352	0/11	0.18	16 / 21 [76%]	0.2	0/21	0.10
Vanadium	--	11 / 11 [100%]	43.7	--	--	21 / 21 [100%]	34.3	--	--
Zinc	109	11 / 11 [100%]	117	1/11	1.1	21 / 21 [100%]	95.8	0/21	0.88

Notes:

Highlight: at least one exceedance of the applicable unrestricted SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

%: percent

Table 2-5B
Summary Statistics Compared to Residential SCO - Parcel 4
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	375-6.8(b) & CP-51 Residential SCO	Site Area(s): OU-3 & portions of OU-1D, OU-1E, & OU-4				Soil Type: Pittstown silt loam, 8 to 15 % slopes			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	0.41	8 / 11 [73%]	0.012	0/11	0.03	2 / 21 [10%]	0.04	0/21	0.10
4-Methylphenol (p-Cresol)	34	7 / 11 [64%]	0.32	0/11	0.009	2 / 21 [10%]	0.22	0/21	0.006
Benzo(a)anthracene	1	9 / 11 [82%]	0.053	0/11	0.05	6 / 21 [29%]	0.027	0/21	0.03
Benzo(a)pyrene	1	9 / 11 [82%]	0.079	0/11	0.08	5 / 21 [24%]	0.034	0/21	0.03
Benzo(b)fluoranthene	1	10 / 11 [91%]	0.11	0/11	0.11	11 / 21 [52%]	0.06	0/21	0.06
Benzo(k)fluoranthene	1	8 / 11 [73%]	0.041	0/11	0.04	5 / 21 [24%]	0.02	0/21	0.02
Chrysene	1	10 / 11 [91%]	0.082	0/11	0.08	7 / 21 [33%]	0.048	0/21	0.05
Dibenz(a,h)anthracene	0.33	3 / 11 [27%]	0.021	0/11	0.06	1 / 21 [5%]	0.007	0/21	0.02
Indeno(1,2,3-cd)pyrene	0.5	9 / 11 [82%]	0.048	0/11	0.10	5 / 21 [24%]	0.029	0/21	0.06
Phenol	100	0 / 11 [0%]	--	0/11	--	1 / 21 [5%]	0.054	0/21	0.0005
Pesticides									
4,4-DDD	2.6	1 / 3 [33%]	0.002	0/3	0.0008	0 / 4 [0%]	--	0/4	--
4,4-DDE	1.8	1 / 3 [33%]	0.0022	0/3	0.001	1 / 4 [25%]	0.0032	0/4	0.002
4,4-DDT	1.7	2 / 3 [67%]	0.0046	0/3	0.003	1 / 4 [25%]	0.0016	0/4	0.0009
Endrin	2.2	0 / 3 [0%]	--	0/3	--	1 / 4 [25%]	0.00048	0/4	0.0002
Metals									
Arsenic	16	11 / 11 [100%]	9.59	0/11	0.60	21 / 21 [100%]	8.7	0/21	0.54
Barium	350	11 / 11 [100%]	97.1	0/11	0.28	21 / 21 [100%]	150	0/21	0.43
Cadmium	2.5	11 / 11 [100%]	0.451	0/11	0.18	21 / 21 [100%]	0.285	0/21	0.11
Chromium	36	11 / 11 [100%]	21.4	0/11	0.59	21 / 21 [100%]	30.7	0/21	0.85
Cobalt	30	11 / 11 [100%]	11.5	0/11	0.38	21 / 21 [100%]	17.5	0/21	0.58
Copper	270	11 / 11 [100%]	21.9	0/11	0.08	21 / 21 [100%]	38.1	0/21	0.14
Iron	2000	11 / 11 [100%]	26600	11/11	13.3	21 / 21 [100%]	35800	21/21	17.9
Lead	400	11 / 11 [100%]	68.1	0/11	0.17	21 / 21 [100%]	50.8	0/21	0.13
Manganese	2000	11 / 11 [100%]	1340	0/11	0.67	21 / 21 [100%]	1690	0/21	0.85
Mercury	0.81	14 / 14 [100%]	0.225	0/14	0.28	27 / 27 [100%]	0.151	0/27	0.19
Nickel	140	11 / 11 [100%]	25.7	0/11	0.18	21 / 21 [100%]	31.3	0/21	0.22
Selenium	36	11 / 11 [100%]	1.31	0/11	0.04	21 / 21 [100%]	0.875	0/21	0.02
Silver	36	11 / 11 [100%]	0.352	0/11	0.01	16 / 21 [76%]	0.2	0/21	0.006
Vanadium	100	11 / 11 [100%]	43.7	0/11	0.44	21 / 21 [100%]	34.3	0/21	0.34
Zinc	2200	11 / 11 [100%]	117	0/11	0.05	21 / 21 [100%]	95.8	0/21	0.04

Notes:

Highlight: at least one exceedance of the applicable residential SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane

4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene

4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane

mg/kg: milligrams per kilogram

SCO: Soil Cleanup Objective

%: percent

Table 2-6A
Summary Statistics Compared to Unrestricted SCO - Parcel 5
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	Unrestricted Use SCO	Site Area(s): OU-1B				Soil Type: Holyoke-Rock outcrop complex			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	--	5 / 11 [45%]	0.018	--	--	3 / 17 [18%]	0.023	--	--
4-Methylphenol (p-Cresol)	0.33	3 / 11 [27%]	1.8	1/11	5.5	2 / 17 [12%]	0.041	0/17	0.12
Benzo(a)anthracene	1	11 / 11 [100%]	0.095	0/11	0.10	9 / 17 [53%]	0.027	0/17	0.03
Benzo(a)pyrene	1	11 / 11 [100%]	0.12	0/11	0.12	10 / 17 [59%]	0.036	0/17	0.04
Benzo(b)fluoranthene	1	11 / 11 [100%]	0.21	0/11	0.21	15 / 17 [88%]	0.064	0/17	0.06
Benzo(k)fluoranthene	0.8	8 / 11 [73%]	0.049	0/11	0.06	6 / 17 [35%]	0.03	0/17	0.04
Chrysene	1	10 / 11 [91%]	0.2	0/11	0.20	14 / 17 [82%]	0.04	0/17	0.04
Dibenz(a,h)anthracene	0.33	3 / 11 [27%]	0.073	0/11	0.22	1 / 17 [6%]	0.006	0/17	0.02
Indeno(1,2,3-cd)pyrene	0.5	11 / 11 [100%]	0.09	0/11	0.18	7 / 17 [41%]	0.032	0/17	0.06
Phenol	0.33	0 / 11 [0%]	--	0/11	--	0 / 17 [0%]	--	0/17	--
Pesticides									
4,4-DDD	0.0033	2 / 2 [100%]	0.0029	0/2	0.88	0 / 4 [0%]	--	0/4	--
4,4-DDE	0.0033	2 / 2 [100%]	0.017	1/2	5.2	4 / 4 [100%]	0.0012	0/4	0.36
4,4-DDT	0.0033	2 / 2 [100%]	0.017	1/2	5.2	0 / 4 [0%]	--	0/4	--
Endrin	0.014	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	13	11 / 11 [100%]	10.2	0/11	0.78	17 / 17 [100%]	8.31	0/17	0.64
Barium	350	11 / 11 [100%]	104	0/11	0.30	17 / 17 [100%]	121	0/17	0.35
Cadmium	2.5	11 / 11 [100%]	0.316	0/11	0.13	17 / 17 [100%]	0.198	0/17	0.08
Chromium	30	11 / 11 [100%]	22.9	0/11	0.76	17 / 17 [100%]	30.2	1/17	1.0
Cobalt	--	11 / 11 [100%]	16.4	--	--	17 / 17 [100%]	29.5	--	--
Copper	50	11 / 11 [100%]	24.8	0/11	0.50	17 / 17 [100%]	35.4	0/17	0.71
Iron	--	11 / 11 [100%]	32700	--	--	17 / 17 [100%]	78200	--	--
Lead	63	11 / 11 [100%]	111	7/11	1.8	17 / 17 [100%]	52.4	0/17	0.83
Manganese	1600	11 / 11 [100%]	2120	1/11	1.3	17 / 17 [100%]	1520	0/17	0.95
Mercury	0.18	15 / 15 [100%]	0.456	6/15	2.5	22 / 22 [100%]	0.238	1/22	1.3
Nickel	30	11 / 11 [100%]	23.1	0/11	0.77	17 / 17 [100%]	47.9	3/17	1.6
Selenium	3.9	11 / 11 [100%]	1.5	0/11	0.38	17 / 17 [100%]	0.817	0/17	0.21
Silver	2	11 / 11 [100%]	0.373	0/11	0.19	17 / 17 [100%]	0.112	0/17	0.06
Vanadium	--	11 / 11 [100%]	53.8	--	--	17 / 17 [100%]	35.6	--	--
Zinc	109	11 / 11 [100%]	109	0/11	1.0	17 / 17 [100%]	169	1/17	1.6

Notes:

Highlight: at least one exceedance of the applicable unrestricted SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane
4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene
4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane
mg/kg: milligrams per kilogram
SCO: Soil Cleanup Objective
%: percent

Table 2-6B
Summary Statistics Compared to Residential SCO - Parcel 5
Chevron Environmental Management Company
Former Texaco Research Center Beacon
Glenham, NY

Analyte	375-6.8(b) & CP-51 Residential SCO	Site Area(s): OU-1B				Soil Type: Holyoke-Rock outcrop complex			
		Surface Soil				Near Surface Soil			
		Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO	Frequency of Detection	Maximum Detection (mg/kg)	Frequency of SCO Exceedance	Ratio of Max Concentration to SCO
Semivolatile Organic Compounds									
2-Methyl-Naphthalene	0.41	5 / 11 [45%]	0.018	0/11	0.04	3 / 17 [18%]	0.023	0/17	0.06
4-Methylphenol (p-Cresol)	34	3 / 11 [27%]	1.8	0/11	0.05	2 / 17 [12%]	0.041	0/17	0.001
Benzo(a)anthracene	1	11 / 11 [100%]	0.095	0/11	0.10	9 / 17 [53%]	0.027	0/17	0.03
Benzo(a)pyrene	1	11 / 11 [100%]	0.12	0/11	0.12	10 / 17 [59%]	0.036	0/17	0.04
Benzo(b)fluoranthene	1	11 / 11 [100%]	0.21	0/11	0.21	15 / 17 [88%]	0.064	0/17	0.06
Benzo(k)fluoranthene	1	8 / 11 [73%]	0.049	0/11	0.05	6 / 17 [35%]	0.03	0/17	0.03
Chrysene	1	10 / 11 [91%]	0.2	0/11	0.20	14 / 17 [82%]	0.04	0/17	0.04
Dibenz(a,h)anthracene	0.33	3 / 11 [27%]	0.073	0/11	0.22	1 / 17 [6%]	0.006	0/17	0.02
Indeno(1,2,3-cd)pyrene	0.5	11 / 11 [100%]	0.09	0/11	0.18	7 / 17 [41%]	0.032	0/17	0.06
Phenol	100	0 / 11 [0%]	--	0/11	--	0 / 17 [0%]	--	0/17	--
Pesticides									
4,4-DDD	2.6	2 / 2 [100%]	0.0029	0/2	0.001	0 / 4 [0%]	--	0/4	--
4,4-DDE	1.8	2 / 2 [100%]	0.017	0/2	0.009	4 / 4 [100%]	0.0012	0/4	0.0007
4,4-DDT	1.7	2 / 2 [100%]	0.017	0/2	0.01	0 / 4 [0%]	--	0/4	--
Endrin	2.2	0 / 2 [0%]	--	0/2	--	0 / 4 [0%]	--	0/4	--
Metals									
Arsenic	16	11 / 11 [100%]	10.2	0/11	0.64	17 / 17 [100%]	8.31	0/17	0.52
Barium	350	11 / 11 [100%]	104	0/11	0.30	17 / 17 [100%]	121	0/17	0.35
Cadmium	2.5	11 / 11 [100%]	0.316	0/11	0.13	17 / 17 [100%]	0.198	0/17	0.08
Chromium	36	11 / 11 [100%]	22.9	0/11	0.64	17 / 17 [100%]	30.2	0/17	0.84
Cobalt	30	11 / 11 [100%]	16.4	0/11	0.55	17 / 17 [100%]	29.5	0/17	0.98
Copper	270	11 / 11 [100%]	24.8	0/11	0.09	17 / 17 [100%]	35.4	0/17	0.13
Iron	2000	11 / 11 [100%]	32700	11/11	16.4	17 / 17 [100%]	78200	17/17	39.1
Lead	400	11 / 11 [100%]	111	0/11	0.28	17 / 17 [100%]	52.4	0/17	0.13
Manganese	2000	11 / 11 [100%]	2120	1/11	1.1	17 / 17 [100%]	1520	0/17	0.76
Mercury	0.81	15 / 15 [100%]	0.456	0/15	0.56	22 / 22 [100%]	0.238	0/22	0.29
Nickel	140	11 / 11 [100%]	23.1	0/11	0.17	17 / 17 [100%]	47.9	0/17	0.34
Selenium	36	11 / 11 [100%]	1.5	0/11	0.04	17 / 17 [100%]	0.817	0/17	0.02
Silver	36	11 / 11 [100%]	0.373	0/11	0.01	17 / 17 [100%]	0.112	0/17	0.003
Vanadium	100	11 / 11 [100%]	53.8	0/11	0.54	17 / 17 [100%]	35.6	0/17	0.36
Zinc	2200	11 / 11 [100%]	109	0/11	0.05	17 / 17 [100%]	169	0/17	0.08

Notes:

Highlight: at least one exceedance of the applicable residential SCO

4,4-DDD: 4,4-Dichlorodiphenyldichloroethane
4,4-DDE: 4,4-Dichlorodiphenyldichloroethylene
4,4-DDT: 4,4-Dichlorodiphenyltrichloroethane
mg/kg: milligrams per kilogram
SCO: Soil Cleanup Objective
%: percent

Table 3-1A
OU-1D Soil Data – Land Use Summary (Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Semivolatile Organic Compounds												
Benzo(a)anthracene	56-55-3	1	--	1	1	1	11	11	0.025	1.3	0	0.41
Benzo(b)fluoranthene	205-99-2	1.7	--	1	1	1	11	11	0.036	1.9	0	0.56
Chrysene	218-01-9	1	--	1	1	3.9	11	11	0.037	1.2	0	0.45
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	11	11	0.016	0.75	0	0.25
Metals												
Arsenic	7440-38-2	16	13	13	16	16	11	11	5.99	96.4	0	34
Chromium	7440-47-3	--	41	30	36	180	11	11	14.8	54.6	0	22
Copper	7440-50-8	1720	50	50	270	270	11	11	23.4	51.6	0	32
Lead	7439-92-1	450	63	63	400	400	11	11	17.9	86.7	0	49
Nickel	7440-02-0	130	30	30	140	310	11	11	19.4	53.6	0	27
Vanadium	7440-62-2	--	39	--	100	--	11	11	21.5	237	0	46
Zinc	7440-66-6	2480	109	109	2200	10000	11	11	78.3	165	0	104
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	11	11	0.0572	0.592	0	0.30

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-1A
OU-1D Soil Data – Land Use Summary (Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	CP-51 & Residential- Restricted SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Semivolatile Organic Compounds												
Benzo(a)anthracene	1/11	--	1/11	1/11	1/11	Yes	No	--	Yes	No	No	Yes
Benzo(b)fluoranthene	1/11	--	2/11	2/11	2/11	Yes	No	--	Yes	No	No	Yes
Chrysene	2/11	--	2/11	2/11	0/11	Yes	No	--	Yes	No	No	Yes
Indeno(1,2,3-cd)Pyrene	0/11	--	2/11	2/11	2/11	Yes	No	--	No	No	No	Yes
Metals												
Arsenic	6/11	7/11	7/11	6/11	6/11	Yes	No	--	Yes	Yes	No	Yes
Chromium	--	1/11	1/11	1/11	0/11	Yes	No	--	No	Yes	No	No
Copper	0/11	1/11	1/11	0/11	0/11	No	No	--	No	Yes	No	No
Lead	0/11	5/11	5/11	0/11	0/11	No	No	--	No	Yes	No	Yes
Nickel	0/11	3/11	3/11	0/11	0/11	No	No	--	No	Yes	No	No
Vanadium	--	1/11	--	1/11	--	Yes	No	--	No	Yes	No	Yes
Zinc	0/11	4/11	4/11	0/11	0/11	No	No	--	No	No	No	No
Mercury	0/11	7/11	7/11	0/11	0/11	No	No	--	No	Yes	No	Yes

Notes:
All values are provided in milligrams per kilogram (mg/k
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-1B
OU-1D Soil Data – Land Use Summary (Near-Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Volatile Organic Compounds												
Acetone	67-64-1	0.05	2.2	0.05	100	100	10	9	0.045	0.13	10.0	0.12
Semivolatile Organic Compounds												
Benzo(a)anthracene	56-55-3	1	--	1	1	1	35	33	0.006	3	6.0	0.44
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	35	33	0.007	2.4	6.0	0.39
Benzo(b)fluoranthene	205-99-2	1.7	--	1	1	1	35	34	0.005	3.5	3.0	0.54
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	35	32	0.005	1.6	9.0	0.23
Chrysene	218-01-9	1	--	1	1	3.9	35	33	0.008	3.3	6.0	0.47
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	35	27	0.007	0.4	23.0	0.07
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	35	32	0.007	1.3	9.0	0.24
Pesticides												
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	7	3	0.0005	0.0039	57.0	0.002
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	7	7	0.0021	0.2	0.0	0.051
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	7	7	0.007	0.096	0.0	0.031
Metals												
Arsenic	7440-38-2	16	13	13	16	16	35	35	4.68	149	0.0	39
Chromium	7440-47-3	--	41	30	36	180	35	35	10.9	33.4	0.0	18
Iron	7439-89-6	--	--	--	2000	--	35	35	19000	47100	0.0	27757
Lead	7439-92-1	450	63	63	400	400	35	35	9.48	107	0.0	41
Manganese	7439-96-5	2000	1600	1600	2000	2000	35	35	385	2790	0.0	719
Nickel	7440-02-0	130	30	30	140	310	35	35	12.8	62.1	0.0	25
Vanadium	7440-62-2	--	39	--	100	--	35	35	14.1	508	0.0	49
Zinc	7440-66-6	2480	109	109	2200	10000	35	35	52.1	173	0.0	89
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	35	35	0.027	2.66	0.0	0.46

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	CP-51 & Residential- Restricted SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Volatile Organic Compounds												
Acetone	7/10	0/10	7/10	0/10	0/10	No	No	--	Yes	No	No	No
Semivolatile Organic Compounds												
Benzo(a)anthracene	3/35	--	3/35	3/35	3/35	Yes	No	--	Yes	No	No	Yes
Benzo(a)pyrene	0/35	0/35	3/35	3/35	3/35	Yes	No	--	No		No	Yes
Benzo(b)fluoranthene	3/35	--	5/35	5/35	5/35	Yes	No	--	Yes		No	Yes
Benzo(k)fluoranthene	0/35	--	3/35	2/35	0/35	Yes	No	--	No		No	Yes
Chrysene	3/35	--	3/35	3/35	0/35	Yes	No	--	Yes		No	Yes
Dibenz(a,h)anthracene	0/35	--	3/35	3/35	3/35	Yes	No	--	No		No	Yes
Indeno(1,2,3-cd)Pyrene	0/35	--	5/35	5/35	5/35	Yes	No	--	No		No	Yes
Pesticides												
4,4-DDD	0/7	1/7	1/7	0/7	0/7	No	No	--	No	No	No	No
4,4-DDE	0/7	3/7	3/7	0/7	0/7	No	No	--	No		No	No
4,4-DDT	0/7	7/7	7/7	0/7	0/7	No	No	--	No		No	No
Metals												
Arsenic	19/35	20/35	20/35	19/35	19/35	Yes	No	--	Yes	Yes	No	Yes
Chromium	--	0/35	1/35	0/35	0/35	No	No	--	No	Yes	No	No
Iron	--	--	--	35/35	--	Yes	No	--	No	Yes	Yes	No
Lead	0/35	7/35	7/35	0/35	0/35	No	No	--	No	Yes	No	Yes
Manganese	1/35	1/35	1/35	1/35	1/35	Yes	No	--	Yes	Yes	No	No
Nickel	0/35	3/35	3/35	0/35	0/35	No	No	--	No	Yes	No	No
Vanadium	--	3/35	--	3/35	--	Yes	No	--	No	Yes	No	Yes
Zinc	0/35	3/35	3/35	0/35	0/35	No	No	--	No	No	No	No
Mercury	7/35	18/35	18/35	6/35	6/35	Yes	No	--	Yes	Yes	No	Yes

Notes:
All values are provided in milligrams per kilogram (m
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-1C
OU-1D Soil Data – Land Use Summary (Subsurface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Volatile Organic Compounds												
Acetone	67-64-1	0.05	2.2	0.05	100	100	13	11	0.013	0.13	15	0.04
Semivolatile Organic Compounds												
Benzo(a)anthracene	56-55-3	1	--	1	1	1	25	8	0.005	4.4	68	0.26
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	25	8	0.008	3.6	68	0.21
Benzo(b)fluoranthene	205-99-2	1.7	--	1	1	1	25	9	0.004	4.1	64	0.22
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	25	7	0.005	2.3	72	0.12
Chrysene	218-01-9	1	--	1	1	3.9	25	8	0.01	4.1	68	0.29
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	25	4	0.037	0.48	84	0.04
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	25	7	0.012	1.6	72	0.09
Metals												
Arsenic	7440-38-2	16	13	13	16	16	25	25	4.39	35.4	0	8
Iron	7439-89-6	--	--	--	2000	--	25	25	20000	32800	0	24804
Lead	7439-92-1	450	63	63	400	400	25	25	8.5	138	0	18
Nickel	7440-02-0	130	30	30	140	310	25	25	13.8	30.5	0	22
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	25	7	0.0225	0.354	72	0.05

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-1C
OU-1D Soil Data – Land Use Summary (Subsurface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	CP-51 & Residential- Restricted SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Volatile Organic Compounds												
Acetone	2/13	0/13	2/13	0/13	0/13	No	No	--	Yes	No	No	No
Semivolatile Organic Compounds												
Benzo(a)anthracene	1/25	0/25	1/25	1/25	1/25	Yes	No	--	Yes	No	No	Yes
Benzo(a)pyrene	0/25	1/25	1/25	1/25	1/25	Yes	No	--	No	No	No	Yes
Benzo(b)fluoranthene	1/25	0/25	1/25	1/25	1/25	Yes	No	--	Yes	No	No	Yes
Benzo(k)fluoranthene	1/25	0/25	1/25	1/25	0/25	Yes	No	--	Yes	No	No	Yes
Chrysene	2/25	0/25	2/25	2/25	1/25	Yes	No	--	Yes	No	No	Yes
Dibenz(a,h)anthracene	0/25	0/25	1/25	1/25	1/25	Yes	No	--	No	No	No	Yes
Indeno(1,2,3-cd)Pyrene	0/25	0/25	1/25	1/25	1/25	Yes	No	--	No	No	No	Yes
Metals												
Arsenic	2/25	3/25	3/25	2/25	2/25	Yes	No	--	Yes	Yes	No	Yes
Iron	--	--	--	25/25	--	Yes	No	--	No	Yes	Yes	No
Lead	0/25	1/25	1/25	0/25	0/25	No	No	--	No	Yes	No	Yes
Nickel	0/25	1/25	1/25	0/25	0/25	No	No	--	No	Yes	No	No
Mercury	0/25	2/25	2/25	0/25	0/25	No	No	--	No	Yes	No	Yes

Notes:
All values are provided in milligrams per kilogram (nr
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-2
OU-1D - Groundwater Summary
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter name	Parameter Code	NY TOGS	USEPA Tapwater RSL 2019	Result Count	Detection Count	Minimum Detection	Maximum Detection	Maximum Non Detections
Metals								
Aluminum	7429-90-5	100	--	8	8	1920	305000	--
Arsenic	7440-38-2	25	--	8	8	2	169	--
Barium	7440-39-3	1000	--	8	8	36.5	1630	--
Beryllium	7440-41-7	3	--	8	7	0.12	16.8	0.091
Chromium	7440-47-3	50	--	8	8	3	533	--
Cobalt	7440-48-4	5	--	8	8	1.1	300	--
Copper	7440-50-8	200	--	8	5	13.1	819	9.9
Iron	7439-89-6	300	--	8	8	2810	674000	--
Lead	7439-92-1	25	--	8	8	2	455	--
Magnesium	7439-95-4	35000	--	8	8	14400	255000	--
Manganese	7439-96-5	300	--	8	8	63.9	29500	--
Manganese (Dissolved)	7439-96-5	300	--	8	8	17.7	1030	--
Nickel	7440-02-0	100	--	8	8	2.7	580	--
Sodium	7440-23-5	20000	--	8	8	37600	404000	--
Sodium (Dissolved)	7440-23-5	20000	--	8	8	32700	412000	--
Thallium	7440-28-0	0.5	--	8	4	0.41	1.5	0.11
Vanadium	7440-62-2	--	86	8	8	2.9	584	--
Mercury	7439-97-6	0.7	--	8	4	0.37	2.4	0.05

Notes:

All values are provided in micrograms per liter (ug/L)

NY TOGS: New York Technical and Operational Guidance Series

USEPA: United States Environmental Protection Agency

RSL: Regional Screening Levels

--: Not applicable

* Historically Present indicates that a compound has been consistently detected in groundwater during sampling events over time at this parcel.

Table 3-2
OU-1D - Groundwater Summary
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter name	Arithmetic Mean	NY TOGS Exceedances Frequency	USEPA Tapwater Exceedances Frequency	Present in Filtered Samples	Historically Present*	Detected Upgradient/ Considered Background	Considered Further for Remedial Alternatives
Metals							
Aluminum	91449	8/8	--	No	Yes	Yes	No
Arsenic	51	4/8	--	No	No	No	Yes
Barium	409	1/8	--	No	No	No	No
Beryllium	5	4/8	--	No	No	No	No
Chromium	128	4/8	--	No	No	No	No
Cobalt	86	4/8	--	No	No	No	No
Copper	246	3/8	--	No	No	No	No
Iron	198826	8/8	--	No	Yes	Yes	No
Lead	131	4/8	--	No	No	No	No
Magnesium	61563	3/8	--	No	No	No	No
Manganese	8003	7/8	--	Yes	Yes	Yes	No
Manganese (Dissolved)	405	4/8	--	Yes	--	--	No
Nickel	158	3/8	--	No	No	No	No
Sodium	222538	8/8	--	Yes	Yes	Yes	No
Sodium (Dissolved)	221050	8/8	--	Yes	--	--	No
Thallium	0.6	3/8	--	No	No	No	No
Vanadium	132	--	3/8	No	No	No	No
Mercury	0.5	2/8	--	No	No	No	Yes

Notes:

All values are provided in micrograms per liter (µg/L)
 NY TOGS: New York Technical Order
 USEPA: United States Environmental Protection Agency
 RSL: Regional Screening Levels
 --: Not applicable
 * Historically Present indicates:

Table 3-3A
OU-1E Soil Data – Land Use Summary (Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Semivolatile Organic Compounds												
Benzo(a)anthracene	56-55-3	1	--	1	1	1	81	77	0.004	6.1	5	0.14
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	81	78	0.006	7.3	4	0.17
Benzo(b)fluoranthene	205-99-2	1.7	--	1	1	1	81	79	0.008	9.8	2	0.25
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	81	72	0.004	4.5	11	0.10
Chrysene	218-01-9	1	--	1	1	3.9	81	79	0.006	6.8	2	0.17
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	81	41	0.005	1.3	49	0.03
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	81	74	0.005	4.3	9	0.11
Pesticides												
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	19	15	0.00081	0.0039	21	0.002
Metals												
Arsenic	7440-38-2	16	13	13	16	16	81	81	4.56	84.4	0	8
Chromium	7440-47-3	--	41	30	36	180	81	81	9.65	34.7	0	19
Iron	7439-89-6	--	--	--	2000	--	81	81	13500	37900	0	22949
Lead	7439-92-1	450	63	63	400	400	81	81	11.4	65.2	0	37
Manganese	7439-96-5	2000	1600	1600	2000	2000	81	81	219	2620	0	865
Nickel	7440-02-0	130	30	30	140	310	81	81	12.9	52.2	0	22
Vanadium	7440-62-2	--	39	--	100	--	81	81	13.7	126	0	35
Zinc	7440-66-6	2480	109	109	2200	10000	81	81	55.9	196	0	87
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	81	81	0.028	1.28	0	0.13

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-3A
OU-1E Soil Data – Land Use Summary (Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	CP-51 & Residential- Restricted SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Semivolatile Organic Compounds												
Benzo(a)anthracene	2/81	--	2/81	2/81	2/81	Yes	Yes	No	Yes	Yes	No	Yes
Benzo(a)pyrene	0/81	1/81	2/81	2/81	2/81	Yes	Yes	Yes	No	Yes	No	Yes
Benzo(b)fluoranthene	2/81	--	2/81	2/81	2/81	Yes	Yes	No	Yes	Yes	No	Yes
Benzo(k)fluoranthene	1/81	--	2/81	2/81	1/81	Yes	Yes	No	Yes	Yes	No	Yes
Chrysene	2/81	--	2/81	2/81	1/81	Yes	Yes	No	Yes	Yes	No	Yes
Dibenz(a,h)anthracene	0/81	--	2/81	2/81	2/81	Yes	Yes	No	No	No	No	Yes
Indeno(1,2,3-cd)Pyrene	0/81	--	2/81	2/81	2/81	Yes	Yes	No	No	No	No	Yes
Pesticides												
4,4-DDE	0/19	3/19	3/19	0/19	0/19	No	Yes	Yes	No	No	Yes	No
Metals												
Arsenic	2/81	3/81	3/81	2/81	2/81	Yes	Yes	Yes	Yes	No	No	Yes
Chromium	--	0/81	3/81	0/81	0/81	No	Yes	No	No	No	No	No
Iron	--	--	--	81/81	--	Yes	Yes	No	No	Yes	Yes	No
Lead	0/81	2/81	2/81	0/81	0/81	No	Yes	Yes	No	Yes	Yes	No
Manganese	2/81	4/81	4/81	2/81	2/81	Yes	Yes	Yes	Yes	Yes	Yes	No
Nickel	0/81	6/81	6/81	0/81	0/81	No	Yes	Yes	No	No	Yes	No
Vanadium	--	18/81	--	1/81	--	Yes	Yes	Yes	No	No	No	No
Zinc	0/81	11/81	11/81	0/81	0/81	No	Yes	Yes	No	No	Yes	No
Mercury	1/81	9/81	9/81	1/81	1/81	Yes	Yes	Yes	Yes	No	No	Yes

Notes:
All values are provided in milligrams per
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Res

Table 3-3B
OU-1E Soil Data – Land Use Summary (Near-Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Acetone	67-64-1	0.05	2.2	0.05	100	100	87	82	0.021	0.36	6	0.12
Semivolatile Organic Compounds												
Benzo(a)anthracene	56-55-3	1	--	1	1	1	253	134	0.004	6.2	47	0.05
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	253	143	0.004	7	43	0.06
Benzo(b)fluoranthene	205-99-2	1.7	--	1	1	1	253	174	0.004	9.4	31	0.08
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	253	105	0.004	4	58	0.04
Chrysene	218-01-9	1	--	1	1	3.9	253	162	0.004	6.6	36	0.06
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	253	41	0.004	1.1	84	0.01
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	253	121	0.004	4	52	0.04
Phenol	108-95-2	0.33	30	0.33	100	100	253	3	0.034	0.65	99	0.02
Pesticides												
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	59	34	0.00043	0.0045	42	0.001
Metals												
Arsenic	7440-38-2	16	13	13	16	16	253	253	3.62	88.5	0	7
Chromium	7440-47-3	--	41	30	36	180	253	253	8.85	101	0	20
Iron	7439-89-6	--	--	--	2000	--	253	253	13800	43600	0	26181
Manganese	7439-96-5	2000	1600	1600	2000	2000	253	253	193	4060	0	719
Nickel	7440-02-0	130	30	30	140	310	253	253	10.2	53.1	0	22
Vanadium	7440-62-2	--	39	--	100	--	253	253	13.5	56.2	0	27
Zinc	7440-66-6	2480	109	109	2200	10000	253	253	38.6	161	0	74
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	253	253	0.0207	0.886	0	0.06

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-3B
OU-1E Soil Data – Land Use Summary (Near-Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	CP-51 & Residential- Restricted SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Acetone	70/87	0/87	70/87	0/87	0/87	No	Yes	No	Yes	No	No	No
Semivolatile Organic Compounds												
Benzo(a)anthracene	3/253	--	3/253	3/253	3/253	Yes	Yes	No	Yes	Yes	No	Yes
Benzo(a)pyrene	0/253	1/253	3/253	3/253	3/253	Yes	Yes	Yes	No	Yes	No	Yes
Benzo(b)fluoranthene	3/253	--	3/253	3/253	3/253	Yes	Yes	No	Yes	Yes	No	Yes
Benzo(k)fluoranthene	1/253	--	3/253	2/253	1/253	Yes	Yes	No	Yes	Yes	No	Yes
Chrysene	3/253	--	3/253	3/253	1/253	Yes	Yes	No	Yes	Yes	No	Yes
Dibenz(a,h)anthracene	0/253	--	3/253	3/253	3/253	Yes	Yes	No	No	No	No	Yes
Indeno(1,2,3-cd)Pyrene	0/253	--	3/253	3/253	3/253	Yes	Yes	No	No	No	No	Yes
Phenol	1/253	0/253	1/253	0/253	0/253	Yes	Yes	No	Yes	No	No	Yes
Pesticides												
4,4-DDE	0/59	2/59	2/59	0/59	0/59	No	Yes	Yes	No	No	No	No
Metals												
Arsenic	4/253	6/253	6/253	4/253	4/253	Yes	Yes	Yes	Yes	No	No	Yes
Chromium	--	3/253	8/253	4/253	0/253	Yes	Yes	Yes	No	No	No	No
Iron	--	--	--	253/253	--	Yes	Yes	No	No	Yes	Yes	No
Manganese	1/253	2/253	2/253	1/253	1/253	Yes	Yes	Yes	Yes	Yes	No	No
Nickel	0/253	14/253	14/253	0/253	0/253	No	Yes	Yes	No	No	No	No
Vanadium	--	8/253	--	0/253	--	No	Yes	Yes	No	No	No	No
Zinc	0/253	7/253	7/253	0/253	0/253	No	Yes	Yes	No	No	No	No
Mercury	1/253	5/253	5/253	1/253	1/253	Yes	Yes	Yes	Yes	No	No	Yes

Notes:
All values are provided in milligrams per kilogram (m
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-3C
OU-1E Soil Data – Land Use Summary (Subsurface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Semivolatile Organic Compounds												
Benzo(a)anthracene	56-55-3	1	--	1	1	1	41	14	0.006	12	66	0.44
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	41	13	0.043	8.6	68	0.33
Benzo(b)fluoranthene	205-99-2	1.7	--	1	1	1	41	14	0.01	11	66	0.42
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	41	13	0.005	4.1	68	0.18
Chrysene	218-01-9	1	--	1	1	3.9	41	15	0.004	11	63	0.43
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	41	8	0.014	2.1	80	0.09
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	41	11	0.038	5	73	0.20
Metals												
Chromium	7440-47-3	--	41	30	36	180	9	9	14.1	48.6	0	20.17

Notes:
All values are provided in milligrams per kilogram (mg/kg)
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-3C
OU-1E Soil Data – Land Use Summary (Subsurface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	CP-51 & Residential- Restricted SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Semivolatile Organic Compounds												
Benzo(a)anthracene	4/41	--	4/41	4/41	4/41	Yes	Yes	No	Yes	Yes	No	Yes
Benzo(a)pyrene	0/41	1/41	1/41	1/41	1/41	Yes	Yes	Yes	No	Yes	No	Yes
Benzo(b)fluoranthene	1/41	--	3/41	3/41	3/41	Yes	Yes	No	Yes	Yes	No	Yes
Benzo(k)fluoranthene	1/41	--	1/41	1/41	1/41	Yes	Yes	No	Yes	Yes	No	Yes
Chrysene	4/41	--	4/41	4/41	1/41	Yes	Yes	No	Yes	Yes	No	Yes
Dibenz(a,h)anthracene	0/41	--	1/41	1/41	1/41	Yes	Yes	No	No	No	No	Yes
Indeno(1,2,3-cd)Pyrene	0/41	--	2/41	2/41	2/41	Yes	Yes	No	No	No	No	Yes
Metals												
Chromium	--	1/9	1/9	1/9	0/9	Yes	Yes	No	No	No	No	No

Notes:
All values are provided in milligrams per kilogram (m
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-4
OU-1E Groundwater Summary
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parametr Name	Parameter Code	NY TOGS	USEPA Tapwater RSL 2019	Result Count	Detection Count	Minimum Detection	Maximum Detection	Maximum Non Detection	Arithmetic Mean	NY TOGS Exceedances Frequency
Volatile Organic Compounds										
cis-1,2-Dichloroethene	156-59-2	5	--	52	10	0.153	3.02	1	1.43	0/52
trans-1,2-Dichloroethene	156-60-5	5	--	52	0	--	--	1	--	0/52
Trichloroethene (Trichloroethylene)	79-01-6	5	--	83	22	0.227	12.3	1	5.66	13/83
SemivolatileOrganicCompounds										
1,4-Dioxane	123-91-1	10	0.46	26	4	1.33	11.8	50	4.19	1/26
2-Methylphenol (o-Cresol)	95-48-7	1	--	73	1	2	2	10	2.00	1/73
Benzo(a)anthracene	56-55-3	0.002	--	82	8	0.0378	3	1	0.50	8/82
Benzo(a)pyrene	50-32-8	--	0.025	82	12	0.0188	3	1	0.40	--
Benzo(b)fluoranthene	205-99-2	0.002	--	82	14	0.0203	3	2	0.40	14/82
Benzo(k)fluoranthene	207-08-9	0.002	--	82	9	0.0202	1	1	0.27	9/82
Chrysene	218-01-9	0.002	--	82	13	0.0211	3	2	0.41	13/82
Dibenz(a,h)anthracene	53-70-3	--	0.025	82	3	0.0176	0.7	1	0.41	--
Hexachlorobutadiene	87-68-3	0.5	--	115	19	0.296	4.14	10	1.35	14/115
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	82	10	0.0301	2	2	0.33	10/82
Nitrobenzene	98-95-3	0.4	--	82	1	1	1	10.5	1.00	1/82
Metals										
Aluminum	7429-90-5	100	--	3	3	12700	29800	--	18533.33	3/3
Cobalt	7440-48-4	5	--	3	3	8.2	31.8	--	16.47	3/3
Iron	7439-89-6	300	--	3	3	30200	64600	--	51633.33	3/3
Lead	7439-92-1	25	--	10	6	0.73	42.8	1.2	18.39	1/10
Magnesium	7439-95-4	35000	--	3	3	8770	61300	--	29290.00	1/3
Manganese	7439-96-5	300	--	3	3	758	2620	--	1427.33	3/3

Notes:
Evaluated Statistics include groundwater data from 2017-2021. Compounds Historically Evaluated have been retained for further review
All values are provided in micrograms per liter (ug/L)
NY TOGS: New York Technical and Operational Guidance Series
USEPA: United States Environmental Protection Agency
RSL: Regional Screening Levels
--: Not applicable

Table 3-4
OU-1E Groundwater Summary
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parametr Name	USEPA Tapwater Exceedances Frequency	Present in Filtered Samples	Historically Present*	Detected Upgradient/ Considered Background	Considered Further for Remedial Alternatives
Volatile Organic Compounds					
cis-1,2-Dichloroethene	--	N/A	Yes	No	Yes
trans-1,2-Dichloroethene	--	N/A	Yes	No	Yes
Trichloroethene (Trichloroethylene)	--	N/A	Yes	No	Yes
SemivolatileOrganicCompounds					
1,4-Dioxane	4/26	N/A	N/A	No	Yes
2-Methylphenol (o-Cresol)	--	N/A	No	No	No
Benzo(a)anthracene	--	N/A	Yes	No	No
Benzo(a)pyrene	11/82	N/A	Yes	No	No
Benzo(b)fluoranthene	--	N/A	Yes	No	No
Benzo(k)fluoranthene	--	N/A	Yes	No	No
Chrysene	--	N/A	Yes	No	No
Dibenz(a,h)anthracene	2/82	N/A	Yes	No	No
Hexachlorobutadiene	--	N/A	Yes	No	Yes
Indeno(1,2,3-cd)Pyrene	--	N/A	Yes	No	No
Nitrobenzene	--	N/A	No	No	No
Metals					
Aluminum	--	No	No	Yes	No
Cobalt	--	No	No	No	No
Iron	--	No	No	Yes	No
Lead	--	No	No	No	No
Magnesium	--	No	No	No	No
Manganese	--	No	No	Yes	No

Notes:
Evaluated Statistics include groundwater data from 2
All values are provided in micrograms per liter (ug/L)
NY TOGS: New York Technical and Operational Gui
USEPA: United States Environmental Protection Age
RSL: Regional Screening Levels
--: Not applicable

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Semivolatile Organic Compounds											
Benzo(a)anthracene	56-55-3	1	--	1	1	5	5	0.063	2.7	0	0.60
Benzo(a)pyrene	50-32-8	22	2.6	1	1	5	5	0.071	1.9	0	0.44
Benzo(b)fluoranthene	205-99-2	1.7	--	1	1	5	5	0.1	2.6	0	0.61
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	5	5	0.037	1.1	0	0.26
Chrysene	218-01-9	1	--	1	1	5	5	0.088	2.4	0	0.55
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	5	5	0.047	0.87	0	0.21
Pesticides											
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	1	1	0.011	0.011	0	0.01
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	1	1	0.004	0.004	0	0.00
Metals											
Iron	7439-89-6	--	--	--	2000	5	5	19300	24000	0	22260
Mercury	7439-97-6	0.73	0.18	0.18	0.81	5	5	0.113	0.217	0	0.14

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Semivolatile Organic Compounds											
Benzo(a)anthracene	1/5	--	1/5	1/5	Yes	No	--	Yes	Yes	No	Yes
Benzo(a)pyrene	0/5	0/5	1/5	1/5	Yes	No	--	No	Yes	No	Yes
Benzo(b)fluoranthene	1/5	--	1/5	1/5	Yes	No	--	Yes	Yes	No	Yes
Benzo(k)fluoranthene	0/5	--	1/5	1/5	Yes	No	--	No	Yes	No	Yes
Chrysene	1/5	--	1/5	1/5	Yes	No	--	Yes	Yes	No	Yes
Indeno(1,2,3-cd)Pyrene	0/5	--	1/5	1/5	Yes	No	--	No	Yes	No	Yes
Pesticides											
4,4-DDE	0/1	1/1	1/1	0/1	No	No	--	No	No	No	No
4,4-DDT	0/1	1/1	1/1	0/1	No	No	--	No	No	No	No
Metals											
Iron	--	--	--	5/5	Yes	No	--	No	Yes	Yes	No
Mercury	0/5	1/5	1/5	0/5	No	No	--	No	Yes	No	Yes

Notes:
All values are provided in milligrams per kilogram
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Volatile Organic Compounds											
Acetone	67-64-1	0.05	2.2	0.05	100	3	3	0.047	0.053	0	0.05
Pesticides											
4,4-DDE*	72-55-9	17	0.0033	0.0033	1.8	4	4	0.0019	0.0083	0	0.005
Metals											
Iron	7439-89-6	--	--	--	2000	16	16	17500	34900	0	27844
Nickel	7440-02-0	130	30	30	140	16	16	14.9	32.8	0	24

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-5B
OU-3 Soil Data – Land Use Summary (Near-Surface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Volatile Organic Compounds											
Acetone	2/3	0/3	2/3	0/3	No	No	--	Yes	Yes	No	No
Pesticides											
4,4-DDE*	0/4	3/4	3/4	0/4	No	No	--	No	No	No	No
Metals											
Iron	--	--	--	16/16	Yes	No	--	No	Yes	Yes	No
Nickel	0/16	2/16	2/16	0/16	No	No	--	No	Yes	Yes	No

Notes:
All values are provided in milligrams per kilogram (m
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-5C
OU-3 Soil Data – Land Use Summary (Subsurface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	Parameter Code	POG SCOs Frequency	PER SCOs Frequency	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
Volatile Organic Compounds											
Acetone	67-64-1	0.05	2.2	0.05	100	5	5	0.013	0.079	0	0.03
Metals											
Iron	7439-89-6	--	--	--	2000	5	5	30900	34000	0	32380
Nickel	7440-02-0	130	30	30	140	5	5	29.5	32.4	0	31

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Table 3-5C
OU-3 Soil Data – Land Use Summary (Subsurface Soil)
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY

Parameter Name	POG SCOs Frequency	PER SCOs Frequency	Unrestricted SCOs Frequency	CP-51 & Residential SCOs Frequency	Exceeds Human Health Criteria	Ecological Pathway	Exceeds PER Criteria	Exceeds POG Criteria	Present in Groundwater	Considered Background	Considered Further for Remedial Alternatives
Volatile Organic Compounds											
Acetone	1/5	0/5	1/5	0/5	No	No	--	Yes	Yes	No	No
Metals											
Iron	--	--	--	5/5	Yes	No	--	No	Yes	Yes	No
Nickel	0/5	4/5	4/5	0/5	No	No	--	No	Yes	Yes	No

Notes:
All values are provided in milligrams per kilogram (m
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Environmental Resources

Parameter Name	Parameter Code	NY TOGS	USEPA Tapwater RSL 2019	Result Count	Detection Count	Minimum Detection	Maximum Detection	Maximum Non Detection	Arithmetic Mean	NY TOGS Exceedances Frequency	USEPA Tapwater Exceedances Frequency	Present in Filtered Samples	Historically Present*	Detected Upgradient/ Considered Background	Considered Further for Remedial Alternatives
Volatile Organic Compounds															
Acetone	67-64-1	50	--	2	2	12	56	--	34	1/2	--	--	--	No	No
Semivolatile Organic Compounds															
Benzo(a)anthracene	56-55-3	0.002	--	2	1	0.3	0.3	0.1	0.200	1/2	--	--	--	No	No
Benzo(a)pyrene	50-32-8	--	0.025	2	1	0.4	0.4	0.1	0.250	--	1/2	--	--	No	No
Benzo(b)fluoranthene	205-99-2	0.002	--	2	1	0.5	0.5	0.1	0.300	1/2	--	--	--	No	No
Benzo(k)fluoranthene	207-08-9	0.002	--	2	1	0.2	0.2	0.1	0.150	1/2	--	--	--	No	No
Chrysene	218-01-9	0.002	--	2	1	0.4	0.4	0.1	0.250	1/2	--	--	--	No	No
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	2	1	0.3	0.3	0.1	0.200	1/2	--	--	--	No	No
Metals															
Aluminum	7429-90-5	100	--	2	2	180000	1730000	--	955000	2/2	--	Yes	--	Yes	No
Aluminum (Dissolved)	7429-90-5	100	--	2	1	1320	1320	19.7	670	1/2	--	Yes	--	Yes	No
Arsenic	7440-38-2	25	--	2	2	43.1	61.1	--	52	2/2	--	No	--	No	No
Barium	7440-39-3	1000	--	2	2	720	1330	--	1025	1/2	--	No	--	No	No
Beryllium	7440-41-7	3	--	2	2	6.8	12.7	--	10	2/2	--	No	--	No	No
Cadmium (Dissolved)	7440-43-9	5	--	2	1	5.2	5.2	0.15	3	1/2	--	Yes	--	No	No
Chromium	7440-47-3	50	--	2	2	289	511	--	400	2/2	--	No	--	No	No
Cobalt	7440-48-4	5	--	2	2	106	199	--	153	2/2	--	Yes	--	No	No
Cobalt (Dissolved)	7440-48-4	5	--	2	2	3.6	352	--	178	1/2	--	Yes	--	No	No
Copper	7440-50-8	200	--	2	2	259	433	--	346	2/2	--	No	--	No	No
Iron	7439-89-6	300	--	2	2	220000	2040000	--	1130000	2/2	--	Yes	--	Yes	No
Iron (Dissolved)	7439-89-6	300	--	2	2	24.5	25600	--	12812	1/2	--	Yes	--	Yes	No
Lead	7439-92-1	25	--	2	2	137	272	--	205	2/2	--	No	--	No	No
Magnesium	7439-95-4	35000	--	2	2	71500	594000	--	332750	2/2	--	Yes	--	No	No
Magnesium (Dissolved)	7439-95-4	35000	--	2	2	32300	113000	--	72650	1/2	--	Yes	--	No	No
Manganese	7439-96-5	300	--	2	2	14300	65700	--	40000	2/2	--	Yes	--	Yes	No
Manganese (Dissolved)	7439-96-5	300	--	2	2	4630	55100	--	29865	2/2	--	Yes	--	Yes	No
Nickel	7440-02-0	100	--	2	2	268	2490	--	1379	2/2	--	Yes	--	No	No
Nickel (Dissolved)	7440-02-0	100	--	2	2	5.7	233	--	119	1/2	--	Yes	--	No	No
Sodium	7440-23-5	20000	--	2	2	19000	192000	--	105500	1/2	--	Yes	--	Yes	No
Sodium (Dissolved)	7440-23-5	20000	--	2	2	86500	295000	--	190750	2/2	--	Yes	--	Yes	No
Thallium	7440-28-0	0.5	--	2	2	1	1.5	--	1	2/2	--	No	--	No	No
Vanadium	7440-62-2	--	86	2	2	191	312	--	252	--	2/2	No	--	No	No
Mercury	7439-97-6	0.7	--	2	2	0.32	4.2	--	2.3	1/2	--	No	--	No	No

Notes:

All values are provided in micrograms per liter (ug/L)
NY TOGS: New York Technical and Operational Guidance Series
USEPA: United States Environmental Protection Agency
RSL: Regional Screening Levels
--: Not applicable

* Historically Present indicates that a compound has been consistently detected in groundwater during sampling events over time at this parcel.

Table 4-1
 Potential Chemical-Specific Applicable or Relevant and Appropriate Requirements
 Chevron Environmental Management Company
 Former Texaco Research Center
 Beacon (Glenham), NY



Media	Authority	Requirement	Requirement Synopsis
Soil	Federal Criteria, Advisories, and Guidance	United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs)	These values are concentrations corresponding to fixed levels of risk (i.e., a hazard quotient of 1 or a lifetime cancer risk of 10E-6, whichever occurs at a lower concentration) in soil.
	State Criteria, Advisories, and Guidance	New York State Department of Environmental Conservation (NYSDEC) Soil Cleanup Objectives (NYCRR Part 375-6.4)	These values include restricted and unrestricted use soil cleanup objectives.
Groundwater	Federal Regulatory Requirement	USEPA Tapwater RSL 2019	These values are concentrations corresponding to fixed levels of risk (i.e., a hazard quotient of 1 or a lifetime cancer risk of 10E-6, whichever occurs at a lower concentration) in water.
	State Criteria, Advisories, and Guidance	NYSDEC Technical and Operational Guidance Series (TOGs) 1.1.1 Groundwater Quality Standards (GWQS) (NYCRR Part 703)	The screening level is GWQS Class A.

Table 4-2
Potential Location-Specific Applicable or Relevant and Appropriate Requirements
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Authority	Requirement	Requirement Synopsis
Federal Regulatory Requirement	Aquifer Recharge Protection	
	Water Pollution Control Act, Section 309 (c) (Fed. Reg. 2946-2948, Jan. 24, 1984).	This regulation restricts activities, such as landfill, surface impoundment, waste pile, injection well, or land treatment, over the unconsolidated quaternary aquifer or recharge zone or streamflow source zone of such aquifer.
	Wetlands	
	U.S. Army Corps of Engineers Nationwide Permit Program	This program prohibits any activity that adversely affects a wetland if a practicable alternative is available that has less effect.
	Executive Order 11990: Protection of Wetlands (40 CFR 6, Appendix A)	Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and to preserve and enhance the natural and beneficial values of wetlands.
	Fish and Wildlife	
	Fish and Wildlife Coordination Act (16 USC 661 et seq., 40 CFR 6.302)	Actions that will impact fish and wildlife must include action to protect affected fish and wildlife resources. This law prohibits diversion, channeling, or other activity that modifies a stream or river and affects fish or wildlife.
	Migratory Bird Treaty Act (16 USC 703 et seq)	Actions taken or funded which result in the killing, hunting, taking, or capturing or any migratory birds, part, nest, or egg is unlawful.
State Regulatory Requirement	Endangered Species Act (Rare, Threatened, or Endangered Species)	
	Endangered Species Act (16 USC 1531 et seq., 50 CFR 402)	This law requires that action be taken to conserve endangered or threatened species. In addition, actions must not destroy or adversely modify critical habitat.
	Endangered and Threatened Species	
State Regulatory Requirement	NYSDEC Endangered and Threatened Species of Fish and Wildlife (NYCRR Part 182)	This regulation stipulates that no person shall take or engage in any activity that is likely to result in a take of any species listed as endangered or threatened.

Table 4-3
Potential Action-Specific Applicable or Relevant and Appropriate Requirements
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Authority	Requirement	Requirement Synopsis
Federal Regulatory Requirement	Air Quality	
	Clean Air Act (40 CFR 50, 60, and 61)	Engineering controls are required to reduce fugitive dust emissions while performing remedial activities, including continuous application of dust suppressants before, during, and after excavation.
	National Primary and Secondary Ambient Air Quality Standards (40 CFR 50)	Appropriate engineering controls are required to reduce emissions associated with excavation and transportation.
	Remedial Measures	
	Institutional Controls – 40 CFR 300.430(a)(a)(iii)(D)	EPA expects to use institutional controls such as water use and deed restrictions to supplement engineering controls as appropriate for short- and long-term management to prevent or limit exposure to hazardous substances, pollutant, or contaminants. Institutional controls may be used during implementation of the remedial action and, where necessary, as a component of the completed remedy
	Occupation Safety and Health Administration	
	Occupational Safety & Health Administration (OSHA)(29 CFR 1910)	These regulations specify the 8-hour time-weighted average concentration for various organic compounds and the training requirements for workers.
	OSHA (29 CFR 1926)	These regulations specify the type of safety equipment and procedures to be followed during site remediation. Safety measures, such as personal protective equipment, are required to protect workers engaged in on-site work during implementation of remedial actions.
	Transportation and Disposal	
	Resource Conservation and Recovery Act (RCRA) – Identification and Listing of Hazardous Waste (40 CFR 261)	This regulation provides guidance for classifying wastes as hazardous under RCRA.

Table 4-3
Potential Action-Specific Applicable or Relevant and Appropriate Requirements
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Authority	Requirement	Requirement Synopsis
	U.S. Department of Transportation Rules for Transportation of Hazardous Materials (49 CFR 107, 171.1 – 172.558)	This regulation provides requirements for transportation of hazardous waste.
State Regulatory Requirement	Air Quality	
	New York Air Quality Management Plan (6 NYCRR Part 200)	This plan addresses attainment and maintenance of national ambient air quality standards (NAAQS), incorporates potential climate change mitigation strategies, reduction of air toxics, increased visibility, reduced acid deposition and considers Environmental Justice (EJ) concerns.
	Remedial Measures	
	New York State Department of Environmental Conservation (NYSDEC), Presumptive/Proven Remedial Technologies, DEC-16, 6 NYCRR section 375-1.8	This document provides descriptions of generally accepted presumptive/proven remedial technologies for use in New York State.
	NYSDEC, Institutional Controls- A Guide to Drafting and Recording Institutional Controls, DER-33	This Program Policy provides an overview of the drafting and recording of Institutional Controls (ICs) for remedial programs in DEC's Division of Environmental Remediation.
	Transportation and Disposal	
	New York Waste Transporter Permits, Management of Specific Hazardous Waste and Land Disposal Restrictions (Chapter IV, P. 364, P. 374 and P. 376)	Solid waste (IDW) for off-site transportation must obtain proper written approval from the State prior to transporting the waste. Once approved, the transporting vehicle has to be properly registered to handle the waste with appropriate placard. On- and off-site storage, treatment, and disposal requirements for solid waste, treatment residues, contaminated soils and contaminated groundwater are specified as administrative requirements for the remediation of contaminated sites.

Table 4-3
Potential Action-Specific Applicable or Relevant and Appropriate Requirements
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Authority	Requirement	Requirement Synopsis
	New York Hazardous Waste Management Regulation (6 NYCRR Parts 370 to 375 and 376)	This regulation provides for the prevention, abatement, and control of contamination by addressing the generation and disposal of hazardous substances, and it authorizes the regulation of storage, treatment, transportation, and disposal of hazardous materials, controlled hazardous substances, and low level nuclear waste.
	Erosion and Sediment Controls	
	New York Standards and Specifications for Erosion and Sediment Control Regulations	An erosion and sediment control plan must be approved by the Rockland County Soil Conservation District.

Table 5-1
Technology Screening Matrix: OU-1D Soil
Chevron Environmental Management Company
45 Old Glenham Road
Beacon, New York

General Response Action	Technology Type	Technology Options	Description	Implementability	Effectiveness	Cost	Technology Selected	Selection Rationale
No Action	No Action	No Action	No Remedial Action is performed for the Site	--	--	--	Yes	Required as a baseline for comparison to other remedial technologies.
Institutional Control	Access Restriction	Site Use (Zoning) restriction	Limits future use of the Site based on defined SCGs.	Easy to implement. Requires labor to draft and record environmental easement.	Only effective when combined with other technologies.	Minimal cost associated with establishing restriction.	Yes, Off-Site Only	Implementable for Off-site Area when combined with other technologies. Not acceptable for On-Site Area as Residential SCOs do not allow for implementation of Institutional or Engineering Controls
		Physical Barriers/Signage	Uses signage and perimeter fencing to discourage entry into area.	Easy to implement. Requires installation of fencing and signage around the perimeter of the site.	Minimizes direct contact by establishing a physical barrier and limits unauthorized access.	Minimal capital cost for installing fence and signage. Minimal O&M costs for maintaining.	Yes, Off-Site Only	Implementable for Off-site Area when combined with other technologies. Not acceptable for On-Site Area as Residential SCOs do not allow for implementation of Institutional or Engineering Controls
Engineering Controls	Soil Cover/Capping (or Infiltration Control)	Permeable Soil Cover	Installation of 18 inches of clean soil and 6 inches of topsoil to prevent direct contact.	Easy to implement. Uses traditional construction equipment. Requires import of clean fill.	Prevents direct contact to contaminants by creating a physical barrier.	Moderate capital cost for importing and placing fill. Minimal O&M costs for maintaining.	No	Change of grade for Off-site Area would have significant impact on existing infrastructure (e.g., rail line). Not acceptable for On-Site Area as Residential SCOs do not allow for implementation of Institutional or Engineering Controls.
		Impermeable Cover	Installation of lined cover system to control surface water and prevent infiltration into impacted areas.	Easy to implement. Uses traditional construction equipment. Requires import of clean fill.	Prevents direct contact to contaminants by creating a physical barrier. Creates surface water runoff issues that would impact neighboring properties.	Moderate capital cost for importing and placing fill. Minimal O&M costs for maintaining.	No	Change of grade for Off-site Area would have significant impact on existing infrastructure (e.g., rail line). Not acceptable for On-Site Area as Residential SCOs do not allow for implementation of Institutional or Engineering Controls..
Removal/Disposal/ Discharge	Excavation	Excavation	Removal of impacted soil through excavation to meet SCGs	Easy to implement. Uses traditional construction equipment. Requires handling of contaminated material	Prevents all future exposure onsite (through removal).	Moderate capital cost for excavating may include structural support and dewatering.	Yes	Eliminates future exposure by physically removing contamination from the Site.
	Disposal	Offsite Landfill	Off-site disposal of excavated impacted soil to an approved landfill to meet SCGs.	Easy to implement. Uses Department of Transportation approved haulers. Requires waste characterization to determine disposal facility.	Prevents all future exposure onsite (through relocating off-site).	Moderate to High capital cost associated with transportation and disposal.	Yes	Eliminates future exposure by physically removing contamination from the Site.
		Onsite Consolidation	Select placement of impacted soil onsite to control long-term management and exposure.	Easy to implement. Uses traditional construction equipment. Requires handling of contaminated soils.	Reduces the contaminated footprint to which future direct contact occurs. Creates surface water runoff issues that would impact neighboring properties.	Moderate capital costs associated with double or triple handling of materials. O&M cost maybe incurred under other remedial technologies.	No	Change of grade for Off-site Area would have significant impact on existing infrastructure (e.g., rail line). Not acceptable for On-Site Area as Residential SCOs do not allow for implementation of Institutional or Engineering Controls..
		Backfilling Excavation	Reuse of treated soil on-site as backfill.	Requires sufficient space to stockpile material on-site for treatment. Uses traditional construction equipment. Requires double handling of soils. Requires confirmation testing that soil meets SCGs	Only effective when combined with other technologies.	Moderate capital costs associated with double or triple handling of materials. O&M cost maybe incurred under other remedial technologies.	No	Limited ability to stage material due to Site logistics (size) and proximity to infrastructure for Off-Site Area. Not acceptable for On-Site Area as Residential SCOs do not allow for implementation of Institutional or Engineering Controls.
In-Situ Treatment	Chemical	Stabilization/Solidification	Fixation of soil and contaminants by mixing various reagents in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Immobilizes metals in soil. Does not treat PAHs. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	No	Effective in treatment of some metals . Requires a second phase of remediation for mercury and PAHs. Effectiveness would need to be determined by bench scale testing.
		Fenton's Regent/Hydrogen Peroxide	Use of the hydroxyl radical through Fenton's reagent to oxidize contaminants by mixing in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	No	Effective in treatment of PAHs. Requires a second phase of treatment for primary constituent of concern (Arsenic). Effectiveness would need to be determined by bench scale testing.
		Potassium Permanganate	Use of potassium or sodium permanganate to oxidize contaminants by mixing in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	No	Effective in treatment of PAHs. Requires a second phase of treatment for primary constituent of concern (Arsenic). Effectiveness would need to be determined by bench scale testing.
	Physical	Soil Vapor Extraction	Vacuum is applied to a series of extraction wells to enhance volatilization of contaminants. Vapor is recovered at the wellhead and treated.	Requires installation of extraction wells that are typically deeper than 5 feet below ground surface and a system to manage vapors/water. Pilot testing would need to be performed to confirm number and spacing of well points, duration of treatment and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	Moderate to High capital cost associated with installation of extraction wells and system. O&M cost associated with system operation.	No	Shallow depth of contaminants make this technology infeasible. Requires a second phase of treatment for primary constituent of concern (Arsenic). Effectiveness would need to be determined by pilot testing.
		Electrical Resistance Heating	Conventional electricity is used to heat the subsurface and strip out contaminants. Vapors are collected using an SVE system.	Requires electrical source. Requires installation of electrodes that are most effective when treating a 10' soil column. Pilot testing would need to be performed to confirm number and spacing of well point, duration of treatment and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	High capital cost associated with installation of electrodes and an electrical source. O&M cost associated with monthly electrical bill.	No	Shallow depth of contaminants make this technology infeasible. Requires a second phase of treatment for primary constituent of concern (Arsenic). Effectiveness would need to be determined by pilot testing.
Ex-Situ Treatment	Chemical	Stabilization/Solidification	Fixation of soil and contaminants by mixing various reagents ex-situ.	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Immobilizes metals in soil. Does not treat PAHs. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent and dosing. O&M cost maybe incurred under other remedial technologies.	No	Not effective in treatment of all metals (e.g., mercury). Requires a second phase of treatment for PAHs. Limited ability to stage material while performing ex-situ treatment due to Site logistics (size) and proximity to infrastructure. Effectiveness would need to be determined by bench scale testing.
		Fenton's Regent/Hydrogen Peroxide	Use of the hydroxyl radical through Fenton's reagent to oxidize contaminants ex-situ	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent, dosing and type of equipment.	No	Effective in treatment of PAHs. Requires a second phase of treatment for primary constituent of concern (Arsenic). Limited ability to stage material while performing ex-situ treatment due to Site logistics (size) and proximity to infrastructure. Effectiveness would need to be determined by bench scale.
		Potassium Permanganate	Use of potassium or sodium permanganate to oxidize contaminants ex-situ.	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent, dosing and type of equipment.	No	Effective in treatment of PAHs. Requires a second phase of treatment for primary constituent of concern (Arsenic). Limited ability to stage material while performing ex-situ treatment due to Site logistics (size) and proximity to infrastructure. Effectiveness would need to be determined by bench scale testing.
	Physical	Soil Washing	Movement of high quantities of water through contaminated soil to desorb contaminants.	Requires sufficient space to treat material on-site. Requires treating wash fluid after soil treatment. Pilot testing would need to be performed to confirm reagent, dosing and effectiveness. Pilot test would be required to determine solutions and effectiveness.	Effective at removing select SVOCs and metals through multiple washes with varying solutions. Additional contaminated media will be produced that would require treatment or off-site disposal.	High capital cost associated with rental of specialty equipment and water source. Requires additional treatment of wash fluid.	No	Limited ability to stage material while performing ex-situ treatment due to Site logistics (size) and proximity to infrastructure. Effectiveness would need to be determined by bench scale testing.
		Low-Temperature Thermal Treatment	Heating of soil using a conveyor and burner system to promote the volatilization of VOCs and some SVOCs.	Requires sufficient space to treat material on-site. Pilot testing would need to be performed to confirm reagent, dosing and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	High capital cost associated with rental of incinerator and an electrical source.	No	Effective in treatment of PAHs. Requires a second phase of treatment for primary constituent of concern (Arsenic). Limited ability to stage material while performing ex-situ treatment due to Site logistics (size) and proximity to infrastructure. Effectiveness would need to be determined by bench scale testing.

Acronyms:

O&M	operation and maintenance
PAHs	polycyclic aromatic hydrocarbons
SCG	screening, criteria and guidance
SVE	Soil Vapor Extraction
SCOs	soil cleanup objective
VOCs	Volatile Organic Compounds
SVOCs	Semi-volatile Organic Compounds

Table 5-2
Technology Screening Matrix: OU-1E Soil
Chevron Environmental Management Company
45 Old Glenham Road
Beacon, New York



General Response Action	Technology Type	Technology Options	Description	Implementability	Effectiveness	Cost	Technology Selected	Selection Rationale
No Action	No Action	No Action	No Remedial Action is performed for the Site	--	--	--	Yes	Required as a baseline for comparison to other remedial technologies.
Institutional Control	Access Restriction	Site Use (Zoning) restriction	Limits future use of the Site based on defined SCGs.	Easy to implement. Requires labor to draft and record environmental easement.	Only effective when combined with other technologies.	Minimal cost associated with establishing restriction.	Yes	Implementable and effective when combined with other technologies. Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
		Physical Barriers/Signage	Uses signage and perimeter fencing to discourage entry into area.	Easy to implement. Requires installation of fencing and signage around the perimeter of the site.	Minimizes direct contact by establishing a physical barrier and limits unauthorized access.	Minimal capital cost for installing fence and signage. Minimal O&M costs for maintaining.	Yes	Implementable and effective when combined with other technologies. Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
Engineering Controls	Soil Cover/Capping (or Infiltration Control)	Permeable Soil Cover	Installation of 18 inches of clean soil and 6 inches of topsoil to prevent direct contact.	Easy to implement. Uses traditional construction equipment. Requires import of clean fill.	Prevents direct contact to contaminants by creating a physical barrier.	Moderate capital cost for importing and placing fill. Minimal O&M costs for maintaining.	Yes	Previously Selected for low-level subsurface SVOCs in Chemical Burial Site 3 area. Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
		Impermeable Cover	Installation of lined cover system to control surface water and prevent infiltration into impacted areas.	Easy to implement. Uses traditional construction equipment. Requires import of clean fill.	Prevents direct contact to contaminants by creating a physical barrier. Creates surface water runoff issues that would impact neighboring properties.	Moderate capital cost for importing and placing fill. Minimal O&M costs for maintaining.	No	Change of grade for Site Area would have significant impact on ecological habitat. Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
Removal/Disposal/ Discharge	Excavation	Excavation	Removal of impacted soil through excavation to meet SCGs	Easy to implement. Uses traditional construction equipment. Requires handling of contaminated material	Prevents all future exposure onsite (through removal).	Moderate capital cost for excavating may include structural support and dewatering.	Yes	Eliminates future exposure by physically removing contamination from the Site.
		Offsite Landfill	Off-site disposal of soil to an approved landfill.	Easy to implement. Uses Department of Transportation approved haulers. Requires waste characterization to determine disposal facility.	Prevents all future exposure onsite (through relocating off-site).	Moderate to High capital cost associated with transportation and disposal.	Yes	Eliminates future exposure by physically removing contamination from the Site.
	Disposal	Onsite Consolidation	Redistributes impacted soil onsite to control long-term management and exposure.	Easy to implement. Uses traditional construction equipment. Requires handling of contaminated soils.	Reduces the contaminated footprint to which future direct contact occurs. Creates surface water runoff issues that would impact neighboring properties.	Moderate capital costs associated with double or triple handling of materials. O&M cost maybe incurred under other remedial technologies.	No	Change of grade for Site Area would have significant impact on ecological habitat. Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
		Backfilling Excavation	Reuse of treated soil on-site as backfill.	Requires sufficient space to stockpile material on-site for treatment. Uses traditional construction equipment. Requires double handling of soils. Requires confirmation testing that soil meets SCGs	Only effective when combined with other technologies.	Moderate capital costs associated with double or triple handling of materials. O&M cost maybe incurred under other remedial technologies.	No	Limited ability to stage material due to sensitive ecological habitat. Shallow depth of contaminants makes in-situ treatment more practical than in-situ treatment.
In-Situ Treatment	Chemical	Stabilization/Solidification	Fixation of soil and contaminants by mixing various reagents in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Immobilizes metals in soil. Does not treat PAHs. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	No	Effective in treatment of some metals. Requires a second phase of remediation for mercury and PAHs. Effectiveness would need to be determined by bench scale testing.
		Fenton's Regent/Hydrogen Peroxide	Use of the hydroxyl radical through Fenton's reagent to oxidize contaminants by mixing in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	Yes	Useful for limiting exposure to receptors by oxidizing PAHs. Requires a second phase of treatment for arsenic and mercury. Effectiveness would need to be determined by bench scale testing.
		Potassium Permanganate	Use of potassium or sodium permanganate to oxidize contaminants by mixing in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	Yes	Useful for limiting exposure to receptors by oxidizing PAHs. Requires a second phase of treatment for arsenic and mercury. Effectiveness would need to be determined by bench scale testing.
	Physical	Soil Vapor Extraction	Vacuum is applied to a series of extraction wells to enhance volatilization of contaminants. Vapor is recovered at the wellhead and treated.	Requires installation of extraction wells that are typically deeper than 5 feet below ground surface and a system to manage vapors/water. Pilot testing would need to be performed to confirm number and spacing of well points, duration of treatment and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	Moderate to High capital cost associated with installation of extraction wells and system. O&M cost associated with system operation.	No	Shallow depth of contaminants make this technology infeasible. Requires a second alternative for metals. Effectiveness would need to be determined by pilot testing. Form of treatment would be detrimental to existing ecological habitat on-site (e.g., wetlands).
		Electrical Resistance Heating	Conventional electricity is used to heat the subsurface and strip out contaminants. Vapors are collected using an SVE system.	Requires electrical source. Requires installation of electrodes that are most effective when treating a 10' soil column. Pilot testing would need to be performed to confirm number and spacing of well point, duration of treatment and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	High capital cost associated with installation of electrodes and an electrical source. O&M cost associated with monthly electrical bill.	No	Shallow depth of contaminants make this technology infeasible. Requires a second alternative for metals. Effectiveness would need to be determined by pilot testing. Form of treatment would be detrimental to existing ecological habitat on-site (e.g., wetlands).
Ex-Situ Treatment	Chemical	Stabilization/Solidification	Fixation of soil and contaminants by mixing various reagents ex-situ.	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Immobilizes metals in soil. Does not treat PAHs. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent and dosing. O&M cost maybe incurred under other remedial technologies.	No	Shallow depth of contaminants makes in-situ treatment more attractive than ex-situ treatment. Limited ability to stage material due to sensitive ecological habitat. Useful for limiting exposure to receptors by immobilizing concentrations of arsenic. Requires a second phase of treatment for PAHs and installation of a permeable cover to prevent direct exposure. Effectiveness would need to be determined by bench scale testing.
		Fenton's Regent/Hydrogen Peroxide	Use of the hydroxyl radical through Fenton's reagent to oxidize contaminants ex-situ	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent, dosing and type of equipment.	No	Shallow depth of contaminants makes in-situ treatment more attractive than ex-situ treatment. Limited ability to stage material due to sensitive ecological habitat. Useful for limiting exposure to receptors by oxidizing PAHs. Requires a second phase of treatment for Arsenic. Effectiveness would need to be determined by bench scale testing.
		Potassium Permanganate	Use of potassium or sodium permanganate to oxidize contaminants ex-situ.	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent, dosing and type of equipment.	No	Shallow depth of contaminants makes in-situ treatment more attractive than ex-situ treatment. Limited ability to stage material due to sensitive ecological habitat. Useful for limiting exposure to receptors by oxidizing PAHs. Requires a second phase of treatment for Arsenic. Effectiveness would need to be determined by bench scale testing.
	Physical	Soil Washing	Movement of high quantities of water through contaminated soil to desorb contaminants.	Requires sufficient space to treat material on-site. Requires treating wash fluid after soil treatment. Pilot testing would need to be performed to confirm reagent, dosing and effectiveness. Pilot test would be required to determine solutions and effectiveness.	Effective at removing select SVOCs and metals through multiple washes with varying solutions. Additional contaminated media will be produced that would require treatment or off-site disposal.	High capital cost associated with rental of specialty equipment and water source. Requires additional treatment of wash fluid.	No	Shallow depth of contaminants makes in-situ treatment more attractive than ex-situ treatment. Limited ability to stage material due to sensitive ecological habitat. Effectiveness would need to be determined by bench scale testing.
		Low-Temperature Thermal Treatment	Heating of soil using a conveyor and burner system to promote the volatilization of VOCs and some SVOCs.	Requires sufficient space to treat material on-site. Pilot testing would need to be performed to confirm reagent, dosing and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	High capital cost associated with rental of incinerator and an electrical source.	No	Shallow depth of contaminants makes in-situ treatment more attractive than ex-situ treatment. Limited ability to stage material due to sensitive ecological habitat. Requires a second phase of treatment for Arsenic. Effectiveness would need to be determined by a bench scale testing.

Acronyms:
O&M operation and maintenance
PAHs polycyclic aromatic hydrocarbons
SCG screening, criteria and guidance
SVE Soil Vapor Extraction
SCOs soil cleanup objective
VOCs Volatile Organic Compounds
SVOCs Semi-volatile Organic Compounds

Table 5-3
Technology Screening Matrix: OU-1E Groundwater
Chevron Environmental Management Company
45 Old Glenham Road
Beacon, New York



General Response Action	Technology Type	Technology Options	Description	Implementability	Effectiveness	Cost ¹	Technology Retained	Selection Rationale
No Action	No Action	No Action	No remedial action.	--	--	--	Yes	Required as a baseline for comparison to other remedial technologies.
Institutional Control	Access Restriction	Site Use (Zoning) restriction	Limits future use of the Site based on defined SCGs.	Easy to implement. Requires labor to draft and record environmental easement.	Only effective when combined with other technologies.	Minimal cost associated with establishing restriction.	No	Not acceptable for meeting Residential as does not allow for implementation of Institutional or Engineering Controls except for Groundwater Usage Restriction.
		Physical Barriers/Signage	Uses signage and perimeter fencing to discourage entry into area.	Easy to implement. Requires installation of fencing and signage around the perimeter of the site.	Minimizes direct contact by establishing a physical barrier and limits unauthorized access.	Minimal capital cost for installing fence and signage. Minimal O&M costs for maintaining.	No	Not acceptable for meeting Residential as does not allow for implementation of Institutional or Engineering Controls except for Groundwater Usage Restriction.
		Groundwater usage restriction	Prevents the use of groundwater as a source of potable or process water without necessary water quality treatment.	Easy to implement. Location makes redevelopment likely.	Prevents future exposure to sensitive populations.	Minimal cost associated with establishing and maintaining groundwater usage restriction.	Yes	Useful for preventing ingestion by receptors when combined with other remedial technologies.
Engineering Control	Soil Cover/Capping (or Infiltration Control)	Impermeable Cover	Installation of lined cover system to control surface water and prevent infiltration into impacted areas.	Easy to implement. Uses traditional construction equipment. Requires import of clean fill.	Prevents direct contact to contaminants by creating a physical barrier. Creates surface water runoff issues that would impact neighboring properties.	Moderate cost for importing and placing fill. Minimal O&M costs for maintaining.	No	Sporadic point exceedances at asymptotic levels would limit the success of the technology. Not acceptable for meeting Residential Use as this Land Use Restriction does not allow for implementation of Engineering Controls for Groundwater.
		Grout Injection	Pressure injection of grout at depth through tightly spaced boreholes to provide low permeability confining unit.	Easy to implement. Uses traditional construction equipment. Requires preparation of grout mixture.	Creates a physical barrier to prevent migration of contaminated groundwater off-site.	Moderate cost for drilling boreholes and filling with grout. Minimal O&M costs for maintaining.	No	Sporadic point exceedances at asymptotic levels would limit the success of the technology. Not acceptable for meeting Residential as does not allow for implementation of Institutional or Engineering Controls.
	Barriers	Sheet Piling	Using sheet piles to form a low permeability wall.	Easy to implement. Uses traditional construction equipment.	Creates a physical barrier to prevent migration of contaminated groundwater off-site.	Moderate cost for procuring and driving sheets Minimal O&M costs for maintaining.	No	Sporadic point exceedances at asymptotic levels would limit the success of the technology. Not acceptable for meeting Residential as does not allow for implementation of Institutional or Engineering Controls.
		Permeable Reactive Wall	A passive treatment wall is constructed across the flow path of the contaminant plume.	Easy to implement. Uses traditional construction equipment. Bench scale test would need to be performed to identify reagent, dosing and effectiveness.	Treats contaminants in groundwater based on reagent selected. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent and dosing. O&M cost associated with replacement of reagent, if needed.	No	Sporadic point exceedances at asymptotic levels would limit the success of the technology. Not acceptable for meeting Residential as does not allow for implementation of Institutional or Engineering Controls.
Long Term Monitoring	Long Term Monitoring	Monitored Natural Attenuation	Perform routine water quality monitoring to periodically assess nature and extent of contaminated groundwater.	Easy to implement. Existing groundwater monitoring wells could be used. Current groundwater data exhibits stable/declining trends.	Low, stable dissolved concentrations make MNA an effective strategy. Groundwater concentrations show a decreasing trend since monitoring began in 2010.	Ongoing monitoring costs for evaluating geochemistry and concentrations of COCs.	Yes	Currently utilized at the Site. Monitored natural attenuation is useful for low level exceedances in areas where groundwater concentrations have stabilized or are decreasing. Effective when combined with groundwater monitoring to confirm groundwater trends.
		Groundwater Monitoring	Perform routine water quality monitoring to periodically assess nature and extent of contaminated groundwater.	Easy to implement. Existing groundwater monitoring wells could be used. Current groundwater data exhibits stable/declining trends.	Low, stable dissolved concentrations make MNA an effective strategy. Groundwater concentrations show a decreasing trend since monitoring began in 2010.	Ongoing monitoring costs for evaluating geochemistry and concentrations of COCs.	Yes	Currently utilized at the Site. Monitored natural attenuation is useful for low level exceedances in areas where groundwater concentrations have stabilized or are decreasing. Effective when combined with groundwater monitoring to confirm groundwater trends.
Removal/Disposal/ Discharge	Removal	Groundwater Extraction	Hydraulic containment through the extraction of site groundwater.	Extraction wells would need to be installed within the relevant OU. Elevated health and safety risk, specifically in regards to well installation and extraction. Drawdown of nearby wetlands would increase difficulty of implementation	Effective in removal of contaminated groundwater; however, would significantly impact ecological habitat (e.g., wetlands).	Moderate level capital costs to install extraction wells. Moderate O&M costs to maintain.	No	Not an acceptable technology as removal of groundwater within the Site would cause impacts to sensitive ecological habitat.
		Groundwater Recovery Trenches	Trenches, drains, and piping used to passively collect groundwater.	Groundwater recovery efforts would be slow compared to other technologies.	This technology approach is not viable for the removal of metals in groundwater. Groundwater extraction would have to occur for a longer duration with multiple sampling events to ensure COCs are below applicable NYSEDEC groundwater criteria.	Moderate level capital costs to install trenches. Moderate O&M costs to maintain.	No	Not an acceptable technology as removal of groundwater within the Site would cause impacts to sensitive ecological habitat.
	Discharge	POTW	Off-site discharge to a POTW under applicable discharge permits.	Requires installation of infrastructure such as a sub-surface pipe to connect to existing sewer system.	Effective in disposal of contaminated groundwater; however, would need to be used in conjunction with Removal.	This technology relies on the cost defined by gallon by the POTW.	No	Not an acceptable technology as removal of groundwater within the Site would cause impacts to sensitive ecological habitat.
		Reinjection	Reinject treated groundwater meeting NYSEDEC GWQS discharge limits outside the areas of contamination	Injection wells would need to be installed within the relevant OU. Elevated health and safety risk, specifically in regards to well installation and extraction.	Effective in disposal of contaminated groundwater; however, would need to be used in conjunction with Removal.	Moderate level capital costs to install injection wells. Moderate O&M costs to maintain.	No	Not an acceptable technology as removal of groundwater within the Site would cause impacts to sensitive ecological habitat.
In-Situ Treatment	Biological	Aerobic Bioremediation	The injection of an oxygen source to aerobically degrade contaminants or precipitate metals.	Injection of an oxygen source into sub-surface poses risk the human health and safety.	Site already exhibits low concentrations of hydrocarbon compounds in groundwater that are stable/declining.	Moderate capital costs, May require multiple iterations.	No	Not an acceptable technology as removal of groundwater within the Site would cause impacts to sensitive ecological habitat.
		Anaerobic Bioremediation	The injection of a substrate source to enhance production of anaerobic microorganisms and degrade contaminants	Common use of substrate (e.g., emulsified vegetable oil) as injection material presents a low risk to human health beyond installation of injection well.	Anaerobic degradation is more apt for degrading low concentrations of CVOCs and their associated products.	Moderate capital costs, May require multiple iterations.	Yes	More feasible than aerobic due to the nature of contaminants (CVOCs) and concentrations. Viable to treat low level concentrations identified at the Site.
Ex-Situ Treatment	Physical	Sedimentation/Filtration	Physical separation based on particle size or density separation of solids from groundwater.	Treatment system would need to be installed within the relevant OU. Elevated health and safety risk, specifically in regards to well installation and extraction.	Effective in treatment of contaminated groundwater; however, would need to be used in conjunction with Removal and Disposal.	Moderate capital costs, high O&M cost	No	Not an acceptable technology as removal of groundwater within the Site would cause impacts to sensitive ecological habitat.
	Chemical	Precipitation	Metal precipitation through the conversion of soluble heavy metals salts to insoluble salts that will precipitate.	Treatment system would need to be installed within the relevant OU. Elevated health and safety risk, specifically in regards to well installation and extraction.	Effective in treatment of contaminated groundwater; however, would need to be used in conjunction with Removal and Disposal.	Moderate capital costs, high O&M cost	No	Not an acceptable technology as removal of groundwater within the Site would cause impacts to sensitive ecological habitat.

Acronyms:
COC Contaminant of Concern
CVOC Chlorinated Volatile Organic Compound
MNA Monitored Natural Attenuation
NYSEDEC New York State Department of Environmental Conservation
O&M operation and maintenance
OU Operable Unit
POTW Publicly Owned Treatment Works
SCG screening, criteria and guidance

Table 5-4
Technology Screening Matrix: OU-3 Soil
Chevron Environmental Management Company
45 Old Glenham Road
Beacon, New York

General Response Action	Technology Type	Technology Options	Description	Implementability	Effectiveness	Cost	Technology Selected	Selection Rationale
No Action	No Action	No Action	No Remedial Action is performed for the Site	--	--	--	Yes	Required as a baseline for comparison to other remedial technologies.
Institutional Control	Access Restriction	Site Use (Zoning) restriction	Limits future use of the Site based on defined SCGs.	Easy to implement. Requires labor to draft and record environmental easement.	Only effective when combined with other technologies.	Minimal cost associated with establishing restriction.	No	Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
		Physical Barriers/Signage	Uses signage and perimeter fencing to discourage entry into area.	Easy to implement. Requires installation of fencing and signage around the perimeter of the site.	Minimizes direct contact by establishing a physical barrier and limits unauthorized access.	Minimal capital cost for installing fence and signage. Minimal O&M costs for maintaining.	No	Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
Engineering Controls	Soil Cover/Capping (or Infiltration Control)	Permeable Soil Cover	Installation of 18 inches of clean fill and 6 inches of topsoil to prevent direct contact.	Easy to implement. Uses traditional construction equipment. Requires import of clean fill.	Prevents direct contact to contaminants by creating a physical barrier.	Moderate capital cost for importing and placing fill. Minimal O&M costs for maintaining.	No	Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
		Impermeable Cover	Installation of lined cover system to control surface water and prevent infiltration into impacted areas.	Easy to implement. Uses traditional construction equipment. Requires import of clean fill.	Prevents direct contact to contaminants by creating a physical barrier. Creates surface water runoff issues that would impact neighboring properties.	Moderate capital cost for importing and placing fill. Minimal O&M costs for maintaining.	No	Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
Removal/Disposal/ Discharge	Excavation	Excavation	Removal of impacted soil through excavation to meet SCGs	Easy to implement. Uses traditional construction equipment. Requires handling of contaminated material	Prevents all future exposure onsite (through removal).	Moderate capital cost for excavating may include structural support and dewatering.	Yes	Eliminates future exposure to receptors through removal.
		Offsite Landfill	Off-site disposal of soil to an approved landfill.	Easy to implement. Uses Department of Transportation approved haulers. Requires waste characterization to determine disposal facility.	Prevents all future exposure onsite (through relocating off-site).	Moderate to High capital cost associated with transportation and disposal.	Yes	Eliminates future exposure to receptors through removal.
	Disposal	Onsite Consolidation	Redistributes impacted soil onsite to control long-term management and exposure.	Easy to implement. Uses traditional construction equipment. Requires handling of contaminated soils.	Reduces the contaminated footprint to which future direct contact occurs. Creates surface water runoff issues that would impact neighboring properties.	Moderate capital costs associated with double or triple handling of materials. O&M cost maybe incurred under other remedial technologies.	No	Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
		Backfilling Excavation	Reuse of treated soil on-site as backfill.	Requires sufficient space to stockpile material on-site for treatment. Uses traditional construction equipment. Requires double handling of soils. Requires confirmation testing that soil meets SCGs	Only effective when combined with other technologies.	Moderate capital costs associated with double or triple handling of materials. O&M cost maybe incurred under other remedial technologies.	No	Not acceptable for meeting Residential SCOs as SCOs do not allow for implementation of Institutional or Engineering Controls.
In-Situ Treatment	Chemical	Stabilization/Solidification	Fixation of soil and contaminants by mixing various reagents in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Immobilizes metals in soil. Does not treat PAHs. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	No	Not effective in treating PAHs.
		Fenton's Regent/Hydrogen Peroxide	Use of the hydroxyl radical through Fenton's reagent to oxidize contaminants by mixing in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	No	Depth of PAHs and anticipated volume make this technology less attractive than excavation. Extent of material to be treated would be required for bench scale testing.
		Potassium Permanganate	Use of potassium or sodium permanganate to oxidize contaminants by mixing in-situ.	Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated with reagent, dosing, and type of equipment.	No	Depth of PAHs and anticipated volume make this technology less attractive than excavation. Extent of material to be treated would be required for bench scale testing.
	Physical	Soil Vapor Extraction	Vacuum is applied to a series of extraction wells to enhance volatilization of contaminants. Vapor is recovered at the wellhead and treated.	Requires installation of extraction wells that are typically deeper than 5 feet below ground surface and a system to manage vapors/water. Pilot testing would need to be performed to confirm number and spacing of well points, duration of treatment and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	Moderate to High capital cost associated with installation of extraction wells and system. O&M cost associated with system operation.	No	Shallow depth of contaminants make this technology infeasible. Extent of material to be treated would be required for the pilot study.
		Electrical Resistance Heating	Conventional electricity is used to heat the subsurface and strip out contaminants. Vapors are collected using an SVE system.	Requires electrical source. Requires installation of electrodes that are most effective when treating a 10' soil column. Pilot testing would need to be performed to confirm number and spacing of well point, duration of treatment and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	High capital cost associated with installation of electrodes and an electrical source. O&M cost associated with monthly electrical bill.	No	Shallow depth of contaminants make this technology infeasible. Extent of material to be treated would be required for the pilot study.
Ex-Situ Treatment	Chemical	Stabilization/Solidification	Fixation of soil and contaminants by mixing various reagents ex-situ.	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Immobilizes metals in soil. Does not treat PAHs. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent and dosing. O&M cost maybe incurred under other remedial technologies.	No	Not effective in treating PAHs.
		Fenton's Regent/Hydrogen Peroxide	Use of the hydroxyl radical through Fenton's reagent to oxidize contaminants ex-situ	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent, dosing and type of equipment.	No	Depth of PAHs and anticipated volume make this technology less attractive than excavation. Extent of material to be treated would be required for bench scale testing.
		Potassium Permanganate	Use of potassium or sodium permanganate to oxidize contaminants ex-situ.	Requires sufficient space to treat material on-site. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	Oxidizes PAHs in soil. Does not treat metals. Bench scale test would be required to confirm effectiveness.	Moderate to high capital cost associated based on reagent, dosing and type of equipment.	No	Depth of PAHs and anticipated volume make this technology less attractive than excavation. Extent of material to be treated would be required for bench scale testing.
	Physical	Soil Washing	Movement of high quantities of water through contaminated soil to desorb contaminants.	Requires sufficient space to treat material on-site. Requires treating wash fluid after soil treatment. Pilot testing would need to be performed to confirm reagent, dosing and effectiveness. Pilot test would be required to determine solutions and effectiveness.	Effective at removing select SVOCs and metals through multiple washes with varying solutions. Additional contaminated media will be produced that would require treatment or off-site disposal.	High capital cost associated with rental of specialty equipment and water source. Requires additional treatment of wash fluid.	No	Depth of PAHs and anticipated volume make this technology less attractive than excavation. Extent of material to be treated would be required for bench scale testing.
		Low-Temperature Thermal Treatment	Heating of soil using a conveyor and burner system to promote the volatilization of VOCs and some SVOCs.	Requires sufficient space to treat material on-site. Pilot testing would need to be performed to confirm reagent, dosing and effectiveness.	Volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm effectiveness.	High capital cost associated with rental of incinerator and an electrical source.	No	Depth of PAHs and anticipated volume make this technology less attractive than excavation. Extent of material to be treated would be required for bench scale testing.

Acronyms:
O&M operation and maintenance
PAHs polycyclic aromatic hydrocarbons
SCG screening, criteria and guidance
SVE Soil Vapor Extraction
SCOs soil cleanup objective
VOCs Volatile Organic Compounds
SVOCs Semi-volatile Organic Compounds

Table 6-1
Summary and Comparative Analysis of Remedial Action Alternatives - OU-1D
Chevron Environmental Management Company
45 Old Glenham Road
Beacon, New York

	Alternative 1.		Alternative 2.		Alternative 3.		Alternative 4.		Alternative 5.	
	Rating	No Action	Rating	Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Industrial SCOs Off-Site	Rating	Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal of Soil for Exceedances of Unrestricted SCOs Off-Site	Rating	Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Industrial SCOs Off-Site	Rating	Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal of Soil for Exceedances of Unrestricted SCOs Off-Site
Description		No Action.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Residential Use within the Residential Parcel Boundary to a depth ranging from 2 to 4 ft bgs and backfill with clean fill, topsoil and vegetation. Removal and off-site disposal of soil exceeding NYSDEC SCOs for Restricted Residential Use outside the Residential Parcel Boundary to a depth of 2 ft bgs followed by installation of a permeable soil cover using eighteen inches of clean fill, six inches of topsoil and vegetation. Implementation of an environmental easement.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Residential Use within the Residential Parcel Boundary to a depth ranging from 2 to 4 ft bgs and backfill with clean fill, topsoil and vegetation. Removal and off-site disposal of soil exceeding NYSDEC SCOs for Unrestricted Use to a depth of 12 ft bgs and backfill with clean fill, topsoil and vegetation.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Residential Use within the Residential Parcel Boundary to a depth ranging from 2 to 4 ft bgs and backfill with clean fill, topsoil and vegetation. Removal and off-site disposal of soil exceeding NYSDEC SCOs for Restricted Residential Use outside the Residential Parcel Boundary to a depth of 2 ft bgs followed by installation of a permeable soil cover using eighteen inches of clean fill, six inches of topsoil and vegetation. Implementation of an environmental easement.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Unrestricted Use to a ranging from 2 to 4 ft bgs and backfill the excavation with clean fill, topsoil and vegetation. Removal and off-site disposal of soil exceeding NYSDEC SCOs for Unrestricted Use to a depth of 12 ft bgs and backfill with clean fill, topsoil and vegetation.
Performance Criteria										
Overall Protection of Human Health and the Environment	Poor	Not protective of human health and the environment	Good	Protective of human health and the environment based on proposed land use.	Good	Protective of human health and the environment based on proposed land use.	Good	Protective of human health and the environment based on proposed land use.	Excellent	Protective of human health and the environment based on proposed land use. No restrictions on use required.
Ability to meet SCGs	Poor	Not compliant with SCGs as concentrations exceeding the NYSDEC Industrial SCOs will be left on-site.	Good	Would meet SCGs through removal of contact points or implementation of ICs/ECs.	Good	Would meet SCGs through removal of contact points or implementation of ICs/ECs.	Good	Would meet SCGs through removal of contact points or implementation of ICs/ECs.	Excellent	Would meet SCGs through removal of contact points. Timeframe dependent on duration of excavation.
Balancing Criteria										
Long-Term Reliability and Effectiveness	Poor	Not an effective or permanent alternative.	Adequate	Removes all soil exceeding the NYSDEC SCOs for Residential Use within the OU-1D parcel boundary and for Restricted Residential Use outside the OU-1 parcel boundary; thus, providing long-term effectiveness and permanence.	Good	Removes all soil exceeding the NYSDEC SCOs for Residential Use within the OU-1D parcel boundary and for Unrestricted Use outside the OU-1D parcel boundary; thus, providing long-term effectiveness and permanence.	Good	Removes all soil exceeding the NYSDEC SCOs for Unrestricted Use within the OU-1D parcel boundary and for Restricted Residential Use outside the OU-1D parcel boundary; thus, providing long-term effectiveness and permanence.	Excellent	Removes all soil exceeding the NYSDEC SCOs for Unrestricted Use; thus, providing long-term effectiveness and permanence.
Reduction of Toxicity, Mobility, or Volume through Treatment	Poor	Does not reduce the toxicity, mobility, or volume of COCs through treatment.	Adequate	Reduces the volume of contaminants; however, volume is transferred off-site as opposed to eliminated through treatment.	Good	Reduces the volume of contaminants; however, volume is transferred off-site as opposed to eliminated through treatment.	Good	Reduces the volume of contaminants; however, volume is transferred off-site as opposed to eliminated through treatment.	Excellent	Reduces the volume of contaminants; however, volume is transferred off-site as opposed to eliminated through treatment.
Short-Term impact and Effectiveness	Poor	Not an effective alternative.	Good	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs.	Adequate	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs and work adjacent to the active rail line.	Good	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs.	Adequate	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs and work adjacent to the active rail line.
Implementability (Technical Feasibility)	Excellent	No Implementability concerns.	Excellent	Easily implemented using traditional construction equipment. Requires minimal disturbance to the active rail line (assumes 2' excavation). Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill.	Poor	Easily implemented using traditional construction equipment. Requires disturbance to active rail line during excavation. Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill.	Good	Easily implemented using traditional construction equipment. Increased logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill.	Poor	Easily implemented using traditional construction equipment. Requires disturbance to active rail line during excavation.. Increased logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill.
Cost Effectiveness	Poor	Minimal to no cost.	Excellent	Moderate capital costs associated with transportation and disposal and import of certified clean fill. Long term monitoring and maintenance costs are low.	Adequate	Higher capital costs associated with transportation and disposal and import of certified clean fill and for work adjacent to the active rail line.	Good	High capital costs associated with transportation and disposal and import of certified clean fill. Long term monitoring and maintenance costs are low.	Poor	Increased capital costs associated with transportation and disposal and import of certified clean fill and for work adjacent to the active rail line.
Land Use	Poor	Does not meet land use concerns	Adequate	Residential Use within the Site boundary. Off-Site will remain active rail line. Current and future land use to be established as Restricted-Residential off-site. Requires Land Use restriction to be agreed to by Metro North	Good	Residential Use within the Site boundary and Unrestricted Use along the rail line.	Adequate	Residential Use within the Site boundary. Off-Site will remain active rail line. Current and future land use to be established as Restricted-Residential off-site. Requires Land Use restriction to be agreed to by Metro North.	Good	No restrictions in current, intended, and future land use.
Overall Rating										
Overall Rating	Poor	Not protective of human health and the environment. Chemical-specific SCGs will be not be attained.	Good	Alternative provides overall protection of Human Health and the Environment for Residential Use on-site. Utilizes an environmental easement to be protective off-site without affecting critical infrastructure during implementation.	Good	Alternative provides overall protection of Human Health and the Environment for residential use on-site. No further action required for off-site.	Good	Alternative provides overall protection of Human Health and the Environment on-site. Utilizes an environmental easement to be protective off-site without affecting critical infrastructure during implementation.	Good	Alternative provides overall protection of Human Health and the Environment. No further action would be required.

Acronyms:
COCs
ft bgs
NYSDEC
OU
SCO
SCG
ICs
ECs

Constituents of Concern
feet below ground surface
New York State Department of Environmental Conservation
operable unit
Soil Cleanup Objectives
Standards, Criteria, and Guidance
Institutional Controls
Engineering Controls

Ratings:
Poor - Indicates Unsatisfactory Aspect
Adequate - Indicates Challenging Aspect
Good - Indicates Reasonable Acceptable Aspect
Excellent - Indicates Preferable Aspect

Table 6-2
Summary and Comparative Analysis of Remedial Action Alternatives - OU-1E
Chevron Environmental Management Company
45 Old Glenham Road
Beacon, New York

Alternative	Alternative 1.		Alternative 2.		Alternative 3.		Alternative 4.		Alternative 5.		Alternative 6.		Alternative 7.	
	Rating	No Action	Rating	In-Situ Soil Mixing and Removal for Exceedances of Restricted-Residential SCOs & Monitored Natural Attenuation for Groundwater	Rating	Removal and Disposal for Exceedances of Restricted-Residential SCOs & Monitored Natural Attenuation for Groundwater	Rating	Removal and Disposal for Exceedances of Unrestricted SCOs & Monitored Natural Attenuation for Groundwater	Rating	In-Situ Soil Mixing and Removal for Exceedances of Restricted-Residential SCOs & Anaerobic Bioremediation for Groundwater	Rating	Removal and Disposal for Exceedances of Restricted-Residential SCOs & Anaerobic Bioremediation for Groundwater	Rating	Removal and Disposal for Exceedances of Unrestricted SCOs & Anaerobic Bioremediation for Groundwater
Description		No Action.		In-situ soil mixing of soil exceeding NYSDEC Restricted-Residential Use SCOs to a depth of 2 ft bgs using sodium permanganate to treat PAHs. Excavation and off-site disposal of soil exceeding NYSDEC Restricted-Residential Use SCOs to a depth of 2 ft bgs for metals and backfill with clean fill, topsoil and vegetation. Utilization of the currently in place permeable soil cover for exceedances in subsurface at the former Chemical Burial Site 3. Implementation of environmental easement for Restricted-Residential Use SCOs. Implementation of institutional controls to restrict access to groundwater. Monitoring for natural attenuation.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Residential Use to a depth of 2 ft bgs and backfill with clean fill, topsoil and vegetation. Utilization of the currently in place permeable soil cover for exceedances in subsurface at the former Chemical Burial Site 3. Implementation of environmental easement for Restricted-Residential Use SCOs. Implementation of institutional controls to restrict access to groundwater. Monitoring for natural attenuation.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Unrestricted Use to a maximum depth of 6 ft bgs and backfill with clean fill, topsoil and vegetation. Implementation of institutional controls to restrict access to groundwater. Monitoring for natural attenuation.		In-situ soil mixing of soil exceeding NYSDEC Restricted-Residential Use SCOs to a depth of 2 ft bgs using sodium permanganate to treat PAHs. Excavation and off-site disposal of soil exceeding NYSDEC Restricted-Residential Use SCOs to a depth of 2 ft bgs for metals and backfill with clean fill, topsoil and vegetation. Utilization of the currently in place permeable soil cover for exceedances in subsurface at the former Chemical Burial Site 3. Implementation of environmental easement for Restricted-Residential Use SCOs. Injection of fermentable substrate (for example: Emulsified Vegetable Oil) to stimulate anaerobic bioremediation of groundwater in-situ. Injection stimulates microbial growth to facilitate the degradation of contaminants.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Residential Use to a depth of 2 ft bgs and backfill with clean fill, topsoil and vegetation. Utilization of the currently in place permeable soil cover for exceedances in subsurface at the former Chemical Burial Site 3. Implementation of environmental easement for Restricted-Residential Use SCOs. Injection of fermentable substrate (for example: Emulsified Vegetable Oil) to stimulate anaerobic bioremediation of groundwater in-situ. Injection stimulates microbial growth to facilitate the degradation of contaminants.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Unrestricted Use to a maximum depth of 6 ft bgs and backfill with clean fill, topsoil and vegetation. Injection of fermentable substrate (for example: Emulsified Vegetable Oil) to stimulate anaerobic bioremediation of groundwater in-situ. Injection stimulates microbial growth to facilitate the degradation of contaminants.
Performance Criteria														
Overall Protection of Human Health and the Environment	Poor	Not protective of human health and the environment	Adequate	Treats soil exceeding the NYSDEC SCOs for Restricted-Residential Use; Prevents contact with subsurface soils; thus, providing long-term effectiveness and permanence. Protective of human health and the environment by documenting stable or decreasing groundwater concentrations overtime.	Adequate	Protective of human health and the environment based on proposed land use. Protective of human health and the environment by documenting stable or decreasing groundwater concentrations overtime.	Good	Protective of human health and the environment based on proposed land use. No restrictions on use required. Protective of human health and the environment by documenting stable or decreasing groundwater concentrations overtime.	Adequate	Treats soil exceeding the NYSDEC SCOs for Restricted-Residential Use; Prevents contact with subsurface soils; thus, providing long-term effectiveness and permanence. actively reducing and documenting reduction of groundwater concentrations through active biological processes.	Adequate	Protective of human health and the environment based on proposed land use. Protective of human health and the environment by actively reducing and documenting reduction of groundwater concentrations through active biological processes.	Excellent	Protective of human health and the environment based on proposed land use. No restrictions on use required. Protective of human health and the environment by actively reducing and documenting reduction of groundwater concentrations through active biological processes.
Ability to meet SCGs	Poor	Not compliant with SCGs as concentrations exceeding the NYSDEC Industrial SCOs will be left on-site.	Adequate	Would meet SCGs through removal of contact points or implementation of ICs/ECs. Timeframe dependent on required treatment time. Compliant with Action- and Location- Specific SCGs. Chemical- Specific SCGs may be reached as monitoring will be implemented.	Adequate	Would meet SCGs through removal of contact points or implementation of ICs/ECs. Compliant with Action- and Location- Specific SCGs. Chemical- Specific SCGs may be reached as monitoring will be implemented.	Good	Would meet SCGs through removal of contact points or implementation of ICs/ECs. Compliant with Action- and Location- Specific SCGs. Chemical- Specific SCGs may be reached as monitoring will be implemented.	Adequate	Would meet SCGs through removal of contact points or implementation of ICs/ECs. Timeframe dependent on required treatment time. Compliant with Action- and Location- Specific SCGs. Would meet SCGs by degrading COCs and documenting declining concentrations.	Adequate	Would meet SCGs through removal of contact points or implementation of ICs/ECs. Compliant with Action- and Location- Specific SCGs. Would meet SCGs by degrading COCs and documenting declining concentrations.	Excellent	Would meet SCGs through removal of contact points or implementation of ICs/ECs. Compliant with Action- and Location- Specific SCGs. Would meet SCGs by degrading COCs and documenting declining concentrations.
Balancing Criteria														
Long-Term Reliability and Effectiveness	Poor	Not an effective or permanent alternative.	Good	Treats soil exceeding the NYSDEC SCOs for Restricted-Residential Use; Prevents contact with subsurface soils; thus, providing long-term effectiveness and permanence. Long-term effectiveness and permanence are provided by maintain land-use restrictions and groundwater monitoring	Good	Removes soil exceeding the NYSDEC SCOs for Restricted-Residential Use; Prevents contact with subsurface soils; thus, providing long-term effectiveness and permanence. Long-term effectiveness and permanence are provided by maintain land-use restrictions and groundwater monitoring	Good	Removes all soil exceeding the NYSDEC SCOs for Unrestricted Use; thus, providing long-term effectiveness and permanence. Long-term effectiveness and permanence are provided by maintain land-use restrictions and groundwater monitoring	Excellent	Treats soil exceeding the NYSDEC SCOs for Restricted-Residential Use; Prevents contact with subsurface soils; thus, providing long-term effectiveness and permanence. Effective and permanent reduction of groundwater concentrations through the degradation of contaminants via injection of substrate. Potential exposure pathways controlled through institutional controls	Excellent	Removes soil exceeding the NYSDEC SCOs for Restricted-Residential Use; Prevents contact with subsurface soils; thus, providing long-term effectiveness and permanence. Effective and permanent reduction of groundwater concentrations through the degradation of contaminants via injection of substrate. Potential exposure pathways controlled through institutional controls	Excellent	Removes all soil exceeding the NYSDEC SCOs for Unrestricted Use; thus, providing long-term effectiveness and permanence. Effective and permanent reduction of groundwater concentrations through the degradation of contaminants via injection of substrate. Potential exposure pathways controlled through institutional controls
Reduction of Toxicity, Mobility, or Volume through Treatment	Poor	Does not reduce the toxicity, mobility, or volume of COCs through treatment.	Good	Reduces the volume of contaminants; Concentrations are treated in-situ to NYSDEC SCOs for Restricted-Residential Use. Reduction of toxicity, mobility, or volume of groundwater COCs may be observed overtime through continued monitoring.	Good	Reduces the volume of soil contaminants; volume is transferred off-site as opposed to eliminated through treatment. Reduction of toxicity, mobility, or volume of groundwater COCs may be observed overtime through continued monitoring.	Good	Reduces the volume of soil contaminants; volume is transferred off-site as opposed to eliminated through treatment. Reduction of toxicity, mobility, or volume of groundwater COCs may be observed overtime through continued monitoring.	Good	Reduces the volume of contaminants; Concentrations are treated in-situ to NYSDEC SCOs for Restricted-Residential Use. Reduces the volume of groundwater contaminants and eliminates through treatment.	Good	Reduces the volume of soil contaminants; volume is transferred off-site as opposed to eliminated through treatment. Reduces the volume of groundwater contaminants and eliminates through treatment.	Excellent	Reduces the volume of soil contaminants; volume is transferred off-site as opposed to eliminated through treatment. Reduces the volume of groundwater contaminants and eliminates through treatment.
Short-Term impact and Effectiveness	Poor	Not an effective alternative.	Good	Potential exposure risk for construction workers through treatment of soil in excess of NYSDEC SCOs. Additional risk associated with management of the chemical for mixing. Limited groundwater activities result in minimal short-term exposure risks that would be managed through engineering controls. Implementation of institutional controls would reduce potential receptor pathways while natural attenuation occurs over time.	Excellent	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs. Limited groundwater activities result in minimal short-term exposure risks that would be managed through engineering controls. Implementation of institutional controls would reduce potential receptor pathways while natural attenuation occurs over time.	Excellent	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs. Limited groundwater activities result in minimal short-term exposure risks that would be managed through engineering controls. Implementation of institutional controls would reduce potential receptor pathways while natural attenuation occurs over time.	Adequate	Potential exposure risk for construction workers through treatment of soil in excess of NYSDEC SCOs. Additional risk associated with management of the chemical for mixing. Effectiveness of groundwater remedy would be determined by bench-scale pilot test. Treatment and construction activities may result in short-term exposure risks.	Adequate	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs. Effectiveness of groundwater remedy would be determined by bench-scale pilot test. Treatment and construction activities may result in short-term exposure risks.	Adequate	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs. Effectiveness of groundwater remedy would be determined by bench-scale pilot test. Treatment and construction activities may result in short-term exposure risks.
Implementability (Technical Feasibility)	Excellent	No Implementability concerns.	Adequate	Bench scale test required to determine reagent, dosing and effectiveness. Requires enhancement of current monitoring system (addition of wells).	Good	Easily implemented using traditional construction equipment. Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill. Requires enhancement of current monitoring system (addition of wells).	Poor	Easily implemented using traditional construction equipment. Increased Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill. Would actively destroy wetlands and forested area to be completed. Requires enhancement of current monitoring system (addition of wells).	Adequate	Bench scale test required to determine reagent, dosing and effectiveness. Additional investigation of groundwater required to determine best locations for installation of treatment wells and type of system.	Adequate	Easily implemented using traditional construction equipment. Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill. Additional investigation of groundwater required to determine best locations for installation of treatment wells and type of system.	Poor	Easily implemented using traditional construction equipment. Increased Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill. Would actively destroy wetlands and forested area to be completed. Additional investigation of groundwater required to determine best locations for installation of treatment wells and type of system.
Cost Effectiveness	Poor	Minimal to no cost.	Excellent	Capital costs as reduced volume of material imported and exported. Long term monitoring and maintenance costs are low. Minimal capital cost for groundwater. Moderate costs for on-going monitoring.	Good	Moderate capital costs associated with transportation and disposal and import of certified clean fill. Long term monitoring and maintenance costs are low. Minimal capital cost for groundwater. Moderate costs for on-going monitoring.	Adequate	Higher capital costs associated with transportation and disposal and import of certified clean fill. Minimal capital cost for groundwater. Moderate costs for on-going monitoring.	Good	Capital costs as reduced volume of material imported and exported. Long term monitoring and maintenance costs are low. Minimal capital cost for groundwater remedy. High operation and monitoring cost associated with injection of substrate and ongoing groundwater sampling.	Adequate	Moderate capital costs associated with transportation and disposal and import of certified clean fill. Long term monitoring and maintenance costs are low. Minimal capital cost for groundwater remedy. High operation and monitoring cost associated with injection of substrate and ongoing groundwater sampling.	Poor	Higher capital costs associated with transportation and disposal and import of certified clean fill. Minimal capital cost for groundwater remedy. High operation and monitoring cost associated with injection of substrate and ongoing groundwater sampling.
Land Use	Poor	Does not meet land use concerns	Good	Current, intended, and future land use to be established as Restricted-Residential.	Excellent	Current, intended, and future land use in a limited area to be established as Restricted-Residential. Would require restrictions to limit contact with groundwater through use restrictions.	Adequate	No restrictions in current, intended, and future land use., but includes widespread destruction of forested habitat. Would require restrictions to limit contact with groundwater through use restrictions.	Good	Current, intended, and future land use to be established as Restricted-Residential. Would require restrictions to limit contact with groundwater through use restrictions until SCGs are reached.	Excellent	Current, intended, and future land use to be established as Restricted-Residential. Would require restrictions to limit contact with groundwater through use restrictions until SCGs are reached.	Good	No restrictions in current, intended, and future land use., but includes widespread destruction of forested habitat. Would require restrictions to limit contact with groundwater through use restrictions until SCGs are reached.
Overall Rating														
Overall Rating	Poor	Not protective of human health and the environment. Chemical-specific SCGs will be not be attained.	Good	Alternative provides overall protection of Human Health and the Environment. Chemical-specific SCGs will be attained through treatment and removal with long-term monitoring.	Good	Alternative provides overall protection of Human Health and the Environment. Chemical-specific SCGs will be attained through excavation and with long term monitoring.	Good	Alternative provides overall protection of Human Health and the Environment; however, implementation would destroy ecological habitat that would take time to be restored back to existing conditions.	Good	Alternative provides overall protection of Human Health and the Environment. Chemical-specific SCGs will be attained through soil and groundwater treatment, and excavation.	Good	Alternative provides overall protection of Human Health and the Environment. Chemical-specific SCGs will be attained through excavation and groundwater treatment.	Good	Alternative provides overall protection of Human Health and the Environment; however, implementation would destroy ecological habitat that would take time to be restored back to existing conditions.

Acronyms:
COCs
ft bgs
NYSDEC
OU
SCO
SCG
ICs
ECs

Constituents of Concern
feet below ground surface
New York State Department of Environmental Conservation
operable unit
Soil Cleanup Objectives
Standards, Criteria, and Guidance
Institutional Controls
Engineering Controls

Ratings:
Poor - Indicates Unsatisfactory Aspect
Adequate - Indicates Challenging Aspect
Good - Indicates Reasonable Acceptable Aspect
Excellent - Indicates Preferable Aspect

Table 6-3
Summary and Comparative Analysis of Remedial Action Alternatives - OU-3
Chevron Environmental Management Company
45 Old Glenham Road
Beacon, New York

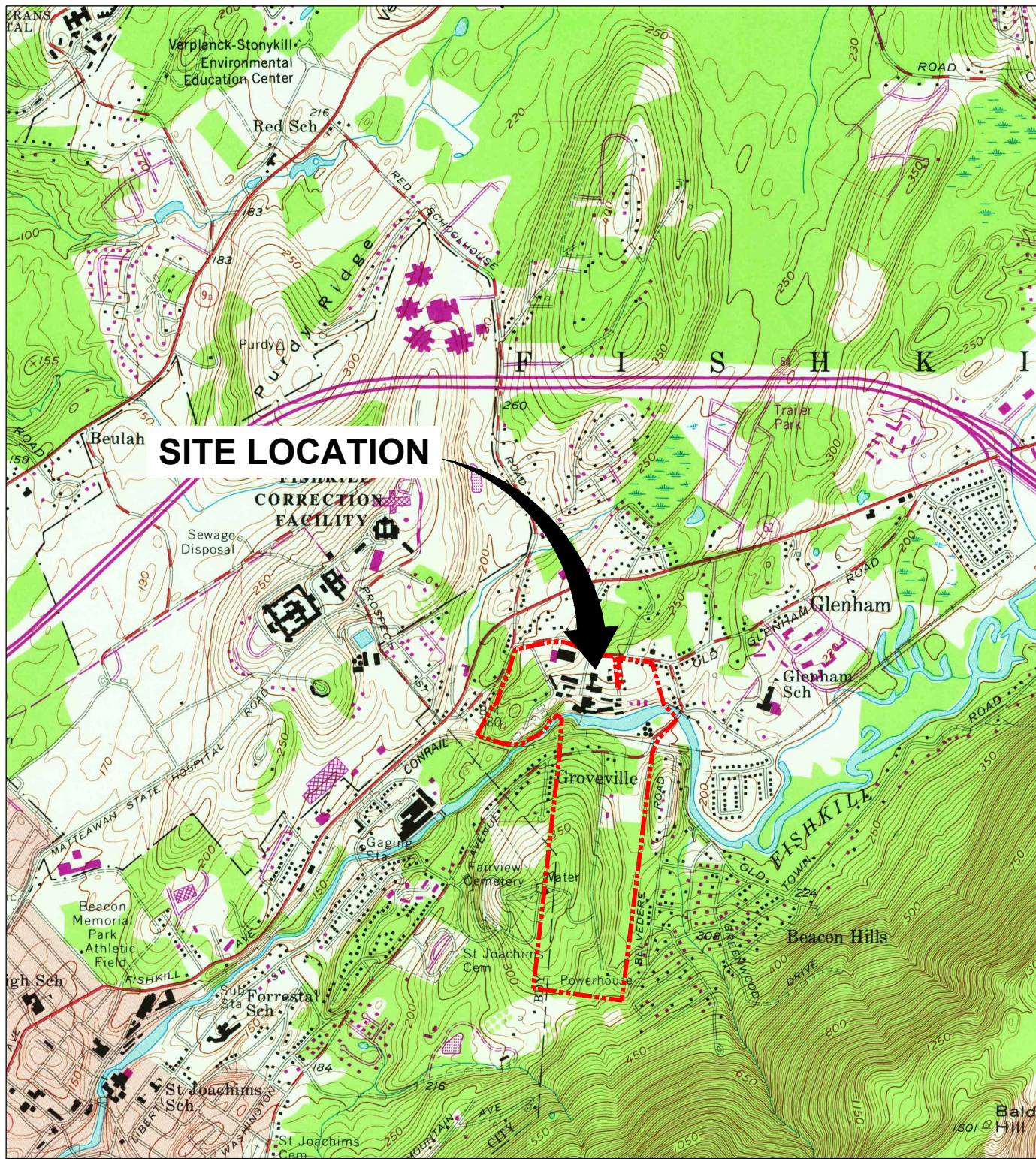
Alternative	Alternative 1.		Alternative 2.		Alternative 3.	
	Rating	No Action	Rating	Removal and Disposal of Soil for Exceedances of Residential SCOs	Rating	Removal and Disposal of Soil for Exceedances of Unrestricted SCOs
Description		No Action.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Residential Use to a depth of 0.5 ft bgs and backfill with certified clean fill and vegetation.		Removal and off-site disposal of soil exceeding NYSDEC SCOs for Unrestricted Use to a depth of 1 ft bgs and backfill with certified clean fill and vegetation.
Performance Criteria						
Overall Protection of Human Health and the Environment	Poor	Not protective of human health and the environment	Good	Protective of human health and the environment based on proposed land use.	Excellent	Protective of human health and the environment based on proposed land use. No restrictions on use required.
Ability to meet SCGs	Poor	Not compliant with SCGs as concentrations exceeding the NYSDEC Industrial SCOs will be left on-site.	Good	Would meet SCGs through removal of contact points.	Excellent	Would meet SCGs through removal of contact points.
Balancing Criteria						
Long-Term Reliability and Effectiveness	Poor	Not an effective or permanent alternative.	Good	Removes soil exceeding the NYSDEC SCOs for Residential Use; thus, providing long-term effectiveness and permanence.	Excellent	Removes all soil exceeding the NYSDEC SCOs for Unrestricted Use; thus, providing long-term effectiveness and permanence.
Reduction of Toxicity, Mobility, or Volume through Treatment	Poor	Does not reduce the toxicity, mobility, or volume of COCs through treatment.	Adequate	Reduces the volume of contaminants; however, volume is transferred off-site as opposed to eliminated through treatment.	Adequate	Reduces the volume of contaminants; however, volume is transferred off-site as opposed to eliminated through treatment.
Short-Term impact and Effectiveness	Poor	Not an effective alternative.	Good	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs.	Good	Potential exposure risk for construction workers through excavation of soil in excess of NYSDEC SCOs.
Implementability (Technical Feasibility)	Excellent	No Implementability concerns.	Good	Easily implemented using traditional construction equipment. Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill.	Good	Easily implemented using traditional construction equipment. Logistics required for transportation and disposal of soil in exceedance of NYSDEC SCOs and import of certified clean fill.
Cost Effectiveness	Poor	Minimal to no cost.	Good	Capital costs associated with transportation and disposal and import of certified clean fill.	Adequate	Higher capital costs associated with transportation and disposal and import of certified clean fill.
Land Use	Poor	Does not meet land use concerns	Good	Current, intended, and future land use to be established as Residential.	Excellent	No restrictions in current, intended, and future land use.
Overall Rating						
Overall Rating	Poor	Not protective of human health and the environment. Chemical-specific SCGs will be not be attained.	Good	Alternative provides overall protection of Human Health and the Environment. Chemical-specific SCGs will be attained through excavation.	Good	Alternative provides overall protection of Human Health and the Environment. Chemical-specific SCGs will be attained through excavation.

Acronyms:
COCs
ft bgs
NYSDEC
SCO
SCG

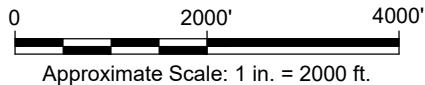
Constituents of Concern
feet below ground surface
New York State Department of Environmental Conservation
Soil Cleanup Objectives
Standards, Criteria, and Guidance

Ratings:
Poor - Indicates Unsatisfactory Aspect
Adequate - Indicates Challenging Aspect
Good - Indicates Reasonable Acceptable Aspect
Excellent - Indicates Preferable Aspect

Figures



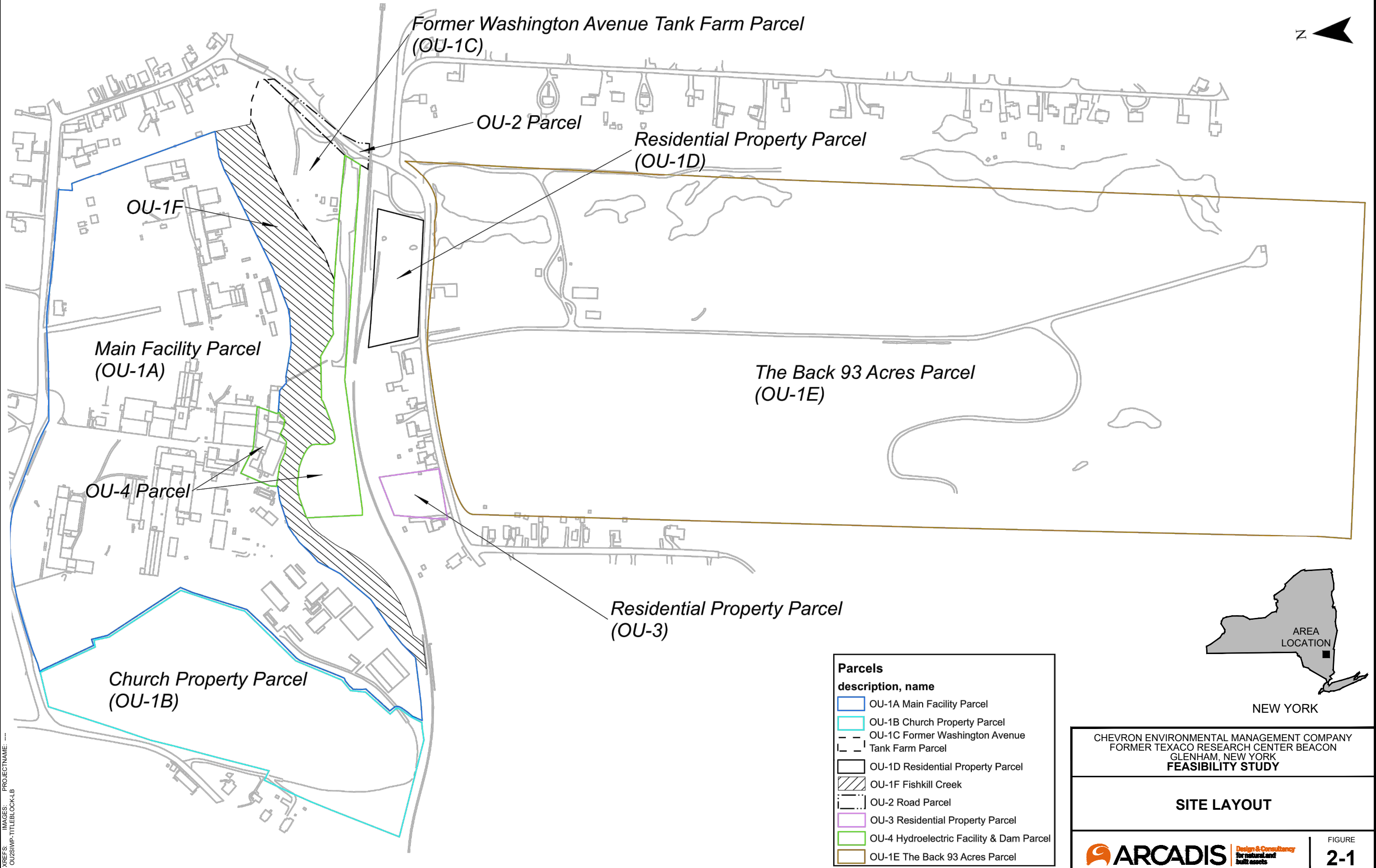
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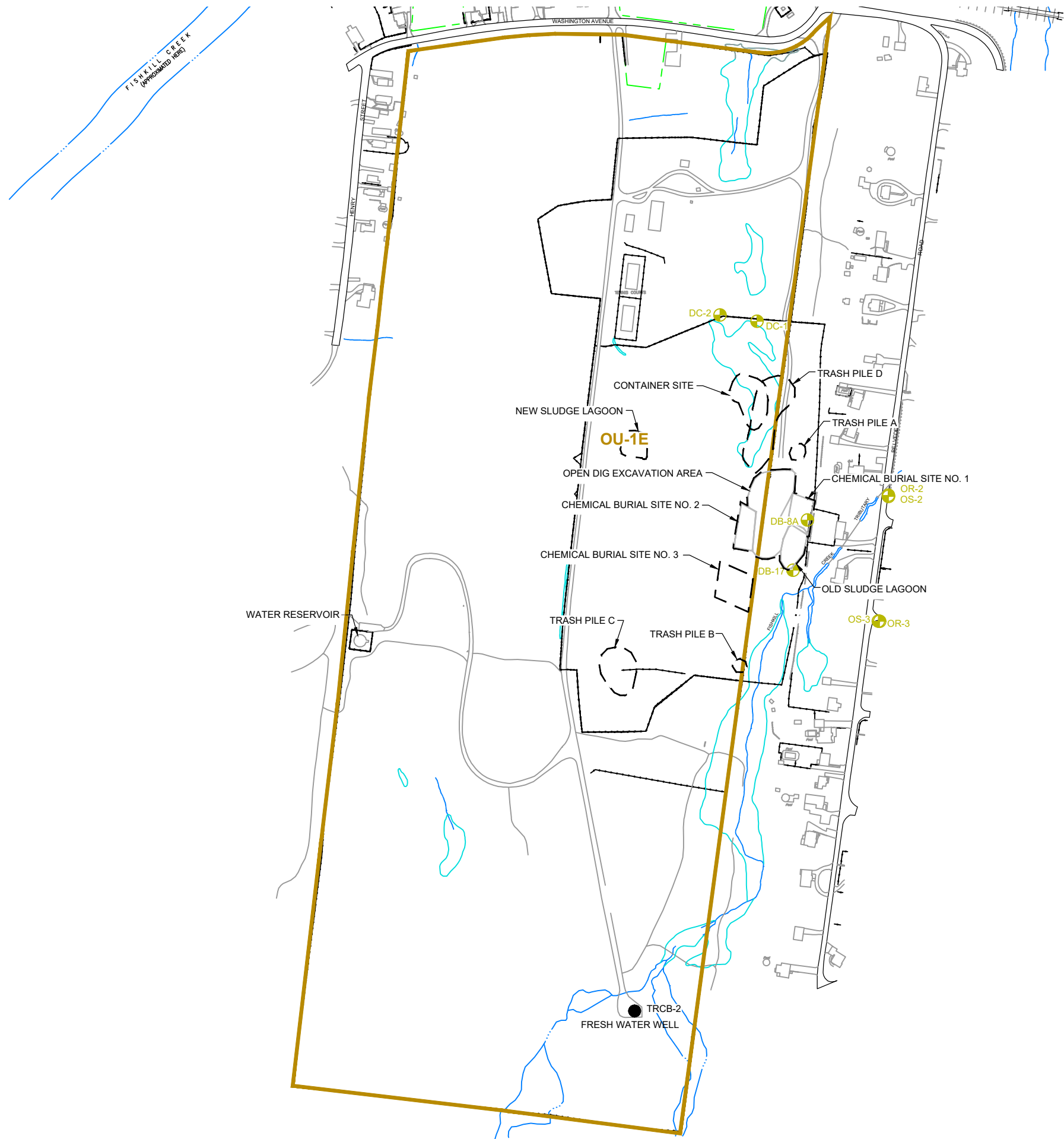


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 FORMER TEXACO RESEARCH CENTER BEACON
 GLENHAM, NEW YORK
FEASIBILITY STUDY

SITE LOCATION MAP

CITY:CRANBURY,NJ DIV:GROUP:INDV:ENV:CAD DB:JMEYER LD:JMEYER PIC:OP: PM:MEYER TM:OP: LVR:OP:NON-1-OFF-REF-
C:\Users\jmeier\BIM\360\Acad\Acad\ANA - CHEVRON CORPORATION\Project Files\Beacon-SITE\2021\01-DWG\OU2SWP-FG2-SITE LAYOUT.dwg LAYOUT: 2 PAGES: 23 OF 23 ACADVER: 23.15 (LMS TECH) PAGES: 23 OF 23 PLOTTED: 12/7/2021 8:34 PM BY: MEYER,
JULIE
XREFS: IMAGES: PROJECTNAME: -
OU2SWP-TITLEBLOCK-LB

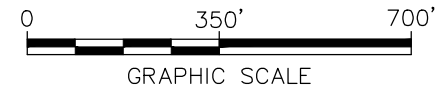




- LEGEND:**
- PROPERTY LINE
 - FENCE
 - RAILROAD
 - WETLAND AREA
 - STREAM
 - DC/DB/OS/OR
 - RECREATION AREA SITE INVESTIGATION
 - FRESH WATER WELL
 - APPROXIMATE LIMIT OF EXCAVATION
 - OU-1E THE BACK 93 ACRE PARCEL

SOURCE:

- BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
- WELL AND BORING ELEVATIONS ARE REFERENCED TO A SITE VERTICAL DATUM ESTABLISHED BY TEXACO IN 1957, HEREINAFTER REFERRED TO AS THE TEXACO DATUM, THIS DATUM IS 1.07' BELOW NAVD 1988.



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER TEXACO BEACON RESEARCH CENTER
GLENHAM, NEW YORK
FEASIBILITY STUDY

OU-1E - BACK 93 ACRE PARCEL



FIGURE
2-2

C:\BIM\OneDrive - ARCADIS\BIM360 - OneDrive Sync Location\AUS-CHEVRON-FORMER TEXACO-BEACON New York\Project Files\202101-10\In Progress\01-DWG\Figs-FIG3-1-OU1D SB DATA.dwg LAYOUT: 3-1 - PLOTTED: 1/23/2021 11:05 AM ACADVER: 24.05 (LMS TECH) PAGES: 1 OF 1
XREFS: BEACON-BASEMAP FS-BDR-F-LB
PLOT STYLE: PLT01.ctb
PROJECT NAME: CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY FORMER TEXACO BEACON RESEARCH CENTER GLENHAM, NEW YORK
FIGURE 3-1

OU1DSB10									
Depth	BaA	BaP	BbF	BkF	Ch	Dibenzo	Indeno	Arsenic	Mercury
0.0-0.17	0.14	0.16	0.22	0.097	0.14	0.031	0.092	20.6	0.573
0.17-0.5	0.27	0.32	0.44	0.17	0.28	0.053	0.16	22.4	0.404
0.5-1.0	0.16	0.19	0.26	0.094 J	0.17	0.02 U	0.12	62.6	0.944
1.0-2.0	0.13	0.15	0.19	0.073 J	0.15	0.035 J	0.094 J	42.4	0.867
2.0-4.0	4.4	3.6	4.1	2.3	4.1	0.48	1.6	25.6	0.354
6.0-8.0	0.004 U (0.004 U)	0.008 U (0.007 U)	0.004 U (0.004 U)	0.004 U (0.004 U)	0.004 U (0.004 U)	0.004 U (0.004 U)	0.008 U (0.007 U)	5.57 (5.44)	0.0344 U (0.0344 U)
10.0-12.0	0.004 U	0.007 U	0.004 U	0.004 U	0.004 U	0.004 U	0.007 U	6.5	0.0335 U

OU1DSB11			
Depth	Arsenic	Mercury	Lead
0.0-0.17	13.2	0.219	21.9
0.17-0.5	19.2	0.408	22.6
0.5-1.0	79	2.6	52.5
1.0-2.0	108	2.66	51.1
2.0-4.0	35.4	0.205	138
6.0-8.0	5.35	0.0539 J	10.4
14.0-16.0	5.11	0.0313 U	8.5

OU1DSB07	
Depth	Mercury
0.0-0.17	0.592
0.17-0.5	0.179
0.5-1.0	0.173 (0.281)
1.0-2.0	0.0402 J

SWSL-74	
Depth	Chrysene
7.0-9.0	1.4

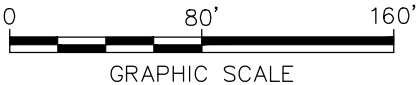
SWSL-76	
Depth	Arsenic
4.0-12.0	14.5

OU1DSB04										
Depth	BaA	BaP	BbF	BkF	Ch	Dibenzo	Indeno	Arsenic	Lead	Mercury
0.0-0.17	1.3	1	1.9	0.8	1.2	0.24	0.75	58.2	86.7	0.466
0.17-0.5	2.3	1.8	3.5	1.1	2.3	0.38	1.2	85.2	83.6	0.665
0.5-1.0	2.1	1.8	3.3	1.6	2.2	0.4	1.3	77.8	66.9	0.788
1.0-2.0	0.51	0.44	0.82	0.4	0.53	0.34	0.34	35.1	49.5	0.221
6.0-8.0	0.004 U	0.008 U	0.004 J	0.004 U	0.004 U	0.004 U	0.008 U	5.43	10.9	0.0362 U
10.0-12.0	0.004 U	0.008 U	0.004 U	0.004 U	0.004 U	0.004 U	0.008 U	10.1	14.7	0.0391 U

OU1DSB03										
Depth	BaA	BaP	BbF	BkF	Ch	Dibenzo	Indeno	Arsenic	Lead	Mercury
0.0-0.17	0.63	0.65	0.78	0.37	0.72	0.11	0.39	78.2	80.9	0.326
0.17-0.5	0.86	0.97	1.2	0.54	1	0.19	0.67	44	81.8	1.1
0.5-1.0	0.44	0.48	0.58	0.28	0.51	0.096	0.32	59.5	107	0.914
1.0-2.0	3	2.4	2	0.95	3.3	0.37	1.1	21.5	66.7	0.625
6.0-8.0	0.004 U	0.008 U	0.004 U	0.004 U	0.004 U	0.004 U	0.008 U	6.12	10.4	0.0362 J
10.0-12.0	0.004 U	0.007 U	0.004 U	0.004 U	0.004 U	0.004 U	0.007 U	6.82	11.5	0.0341 U
14.0-16.0	0.004 U	0.008 U	0.004 U	0.004 U	0.004 U	0.004 U	0.008 U	5.4	10.2	0.0353 U

- NOTES:
- INDICATES THAT SAMPLE WAS NOT ANALYZED AT THIS SAMPLE INTERVAL.
 - DEPTH IS MEASURED IN FEET BELOW GROUND SURFACE.
 - ALL RESULTS SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG).
 - SCREENING CRITERIA EXCEEDANCES ARE SHOWN IN TEXTBOXES.
 - SCOS REFERS TO SOIL CLEANUP OBJECTIVES.
 - SAMPLES WITHIN THE OU-1D RESIDENTIAL PROPERTY PARCEL ARE COMPARED TO THE UNRESTRICTED, POG AND RESIDENTIAL SCOS.
 - SAMPLES WITHIN THE OFF-SITE AREA (OUTSIDE OF OU-1D RESIDENTIAL PROPERTY PARCEL) ARE COMPARED TO THE UNRESTRICTED, POG, RESIDENTIAL AND RESTRICTED RESIDENTIAL SCOS.

- SOURCE:
- BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
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OU1DSB08			
Depth	Arsenic	Lead	Mercury
0.0-0.17	45.4	65.1	0.427
0.17-0.5	41.1	39.3	0.448
0.5-1.0	15.6	19.4	0.126
1.0-2.0	11.9	16.3	0.101 J
4.0-6.0	5.46	12.5	0.0346 U
6.0-8.0	5.81	12.1	0.0338 U
14.0-16.0	6.37	11.3	0.033 U

OU1DSB06						
Depth	BbF	Ch	Indeno	Arsenic	Lead	Mercury
0.0-0.17	1.2	1.1	0.6	28.5	631.1	0.316
0.17-0.5	1.1	0.99	0.53	36.8	74.8	0.441
0.5-1.0	0.87	0.72	0.45	56.8	60	0.597
1.0-2.0	0.41	0.38	0.19	22.1	30.3	0.193
2.0-4.0	0.004 U	0.004 U	0.007 U	4.77	9.03	0.0333 U
6.0-8.0	0.004 U	0.004 U	0.008 U	6.32	11.7	0.0327 U
16.0-18.0	0.004 U	0.004 U	0.007 U	4.39	9.75	0.0331 U

OU1DSB05			
Depth	Arsenic	Lead	Mercury
0.0-0.17	96.4	65.6	0.123 J
0.17-0.5	149	32.5	0.0872 J
0.5-1.0	133	23.2	0.0545 J
1.0-2.0	144	74.2	0.243
4.0-6.0	6.37	23	0.0385 U
6.0-8.0	5.55	12.7	0.0385 U
14.0-16.0	4.42	9.41	0.0316 U

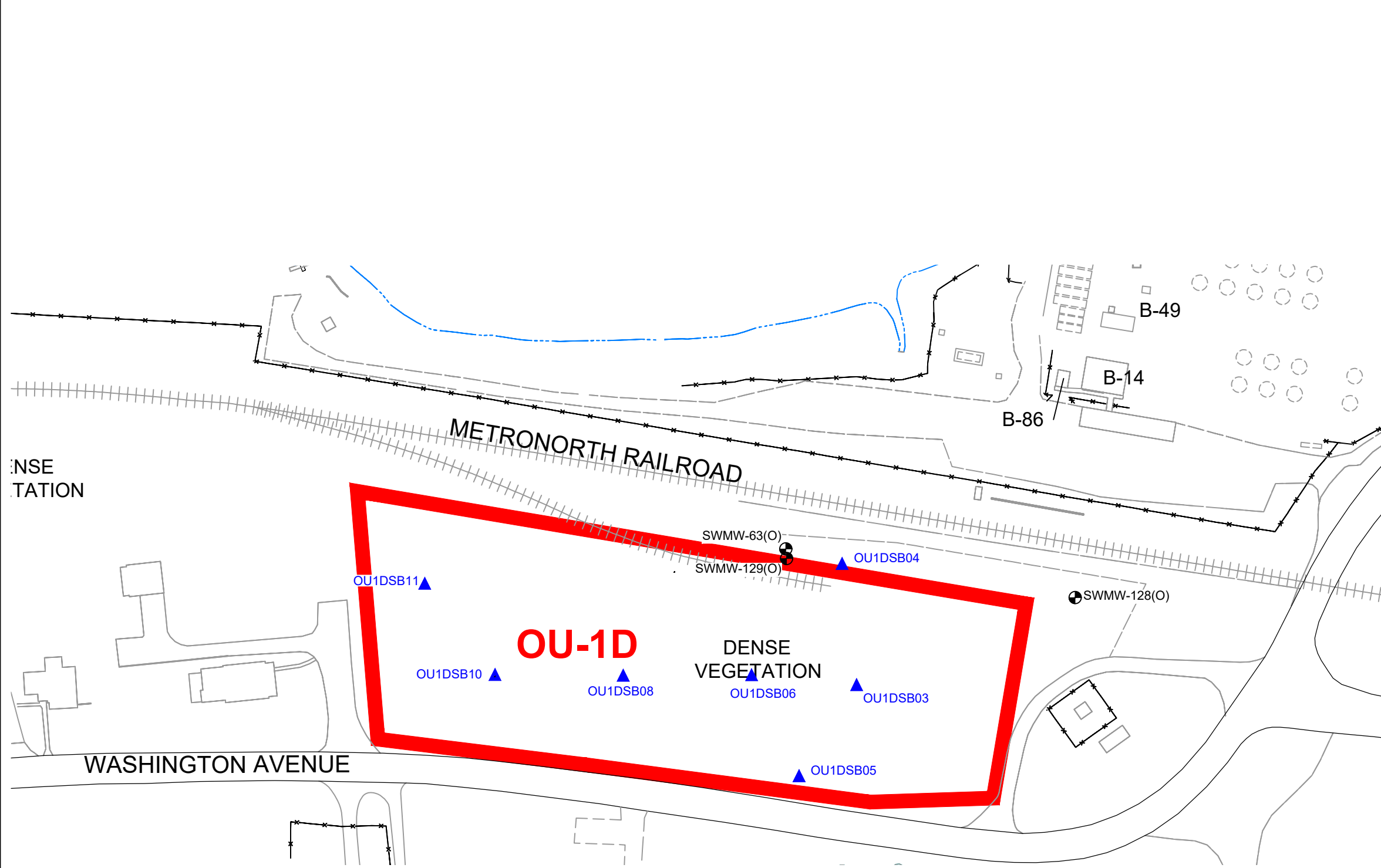
New York State Department of Environmental Conservation SCOs					
End use:	Residential	6 NYCRR Part 375-6.8(b)	6 NYCRR Part 375-6.8(a)	6 NYCRR Part 375-6.8(b)	6 NYCRR Part 375-6.8(b)
Constituent	CAS	Protection of Groundwater	Unrestricted	Residential	Residential-Restricted
Benzo(a)anthracene [BaA]	56-55-3	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg
Benzo(a)pyrene [BaP]	50-32-8	22 mg/kg	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg
Benzo(b)fluoranthene [BbF]	205-99-2	1.7 mg/kg	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg
Benzo(k)fluoranthene [BkF]	207-08-9	1.7 mg/kg	0.8 mg/kg	1.0 mg/kg	3.9 mg/kg
Chrysene [Ch]	218-01-9	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg	3.9 mg/kg
Dibenz(a,h)anthracene [Dibenzo]	53-70-3	1,000 mg/kg	0.33 mg/kg	0.33 mg/kg	0.33 mg/kg
Indeno(1,2,3-cd)Pyrene [Indeno]	193-39-5	8.2 mg/kg	0.5 mg/kg	0.5 mg/kg	0.5 mg/kg
Arsenic	7440-38-2	16 mg/kg	13 mg/kg	16 mg/kg	16 mg/kg
Lead	7439-92-1	450 mg/kg	63 mg/kg	400 mg/kg	400 mg/kg
Vanadium	7440-62-2	NA	NA	100 mg/kg	NA
Mercury	7439-97-6	0.73 mg/kg	0.18 mg/kg	0.81 mg/kg	0.81 mg/kg

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER TEXACO BEACON RESEARCH CENTER
GLENHAM, NEW YORK
FEASIBILITY STUDY

OU-1D SOIL EXCEEDANCES



FIGURE
3-1

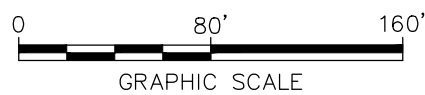


LEGEND:

- FENCE
- RAILROAD
- WETLAND
- STREAM
- SOIL BORING LOCATION CONVERTED INTO TEMPORARY WELL POINT
- MONITORING WELL
- OU-1D RESIDENTIAL PROPERTY PARCEL

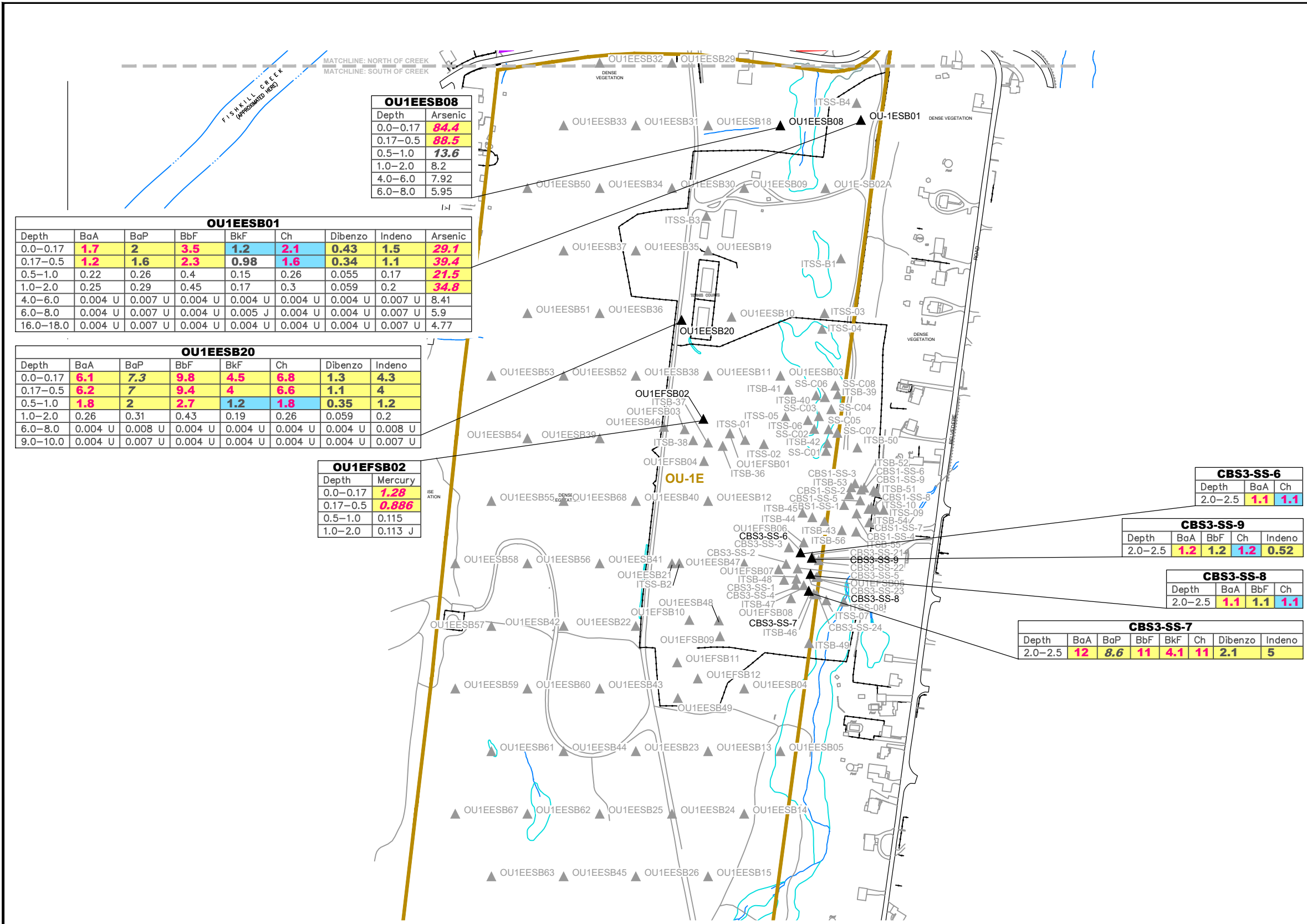


- SOURCE:**
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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY FORMER TEXACO BEACON RESEARCH CENTER GLENHAM, NEW YORK FEASIBILITY STUDY	
OU-1D GROUNDWATER SAMPLING LOCATIONS	
	FIGURE 3-2

XREFS:
BEACON-BASEMAP
FS-BDR-F-LB



NOTES:

- SCO- SOIL CLEANUP OBJECTIVE

SOURCE:

- BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
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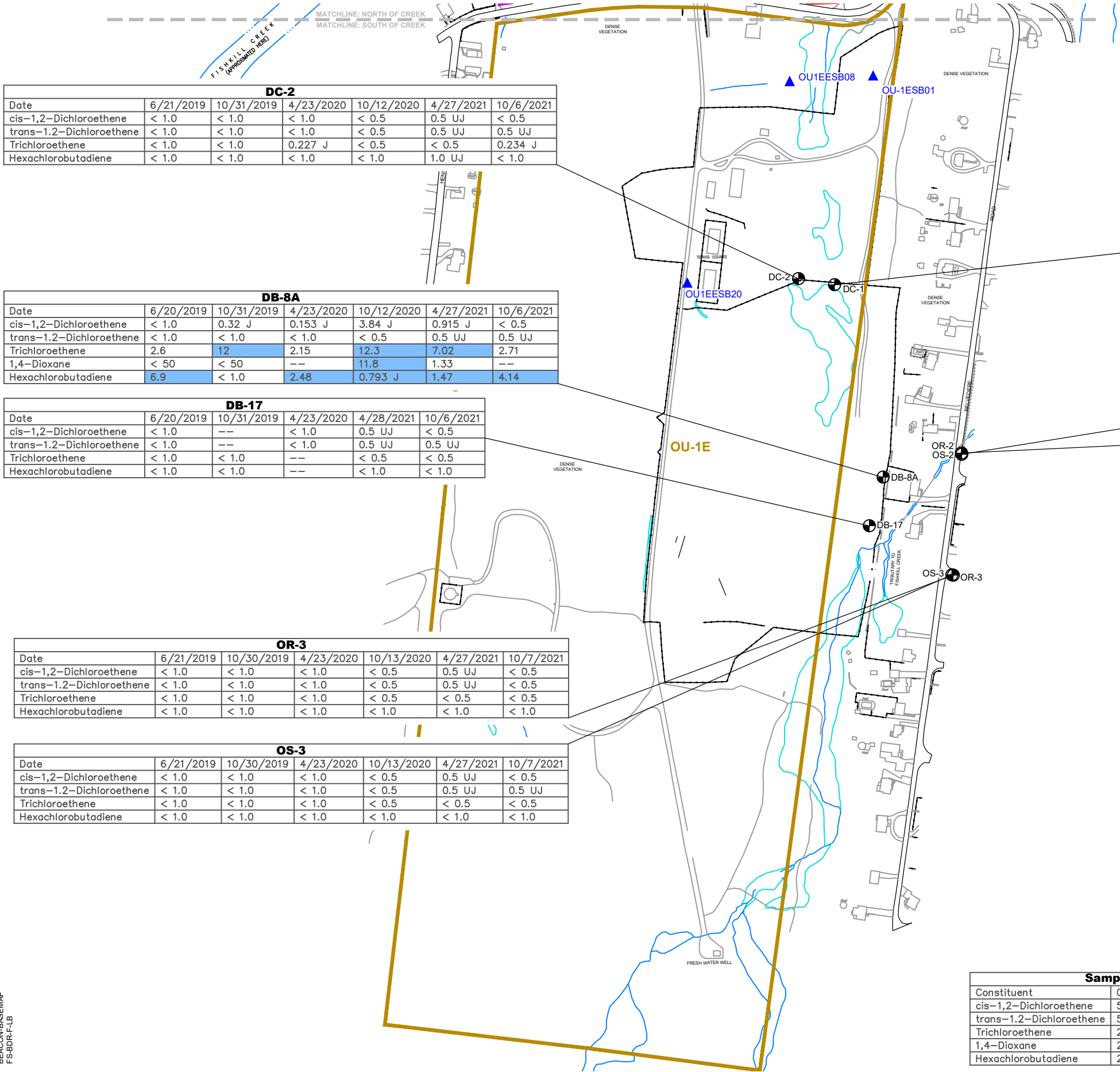
New York State Department of Environmental Conservation SCOs						
Constituent	CAS	6 NYCRR Part 375-6.8(b) Protection of Groundwater	6 NYCRR Part 375-6.8(b) Protection to Ecological Resources	6 NYCRR Part 375-6.8(a) Unrestricted	6 NYCRR Part 375-6.8(b) Residential	6 NYCRR Part 375-6.8(b) Residential-Restricted
Benzo(a)anthracene [BaA]	56-55-3	1.0 mg/kg	NA	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg
Benzo(a)pyrene [BaP]	50-32-8	22 mg/kg	2.6 mg/kg	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg
Benzo(b)fluoranthene [BbF]	205-99-2	1.7 mg/kg	NA	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg
Benzo(k)fluoranthene [BkF]	207-08-9	1.7 mg/kg	NA	0.8 mg/kg	1.0 mg/kg	3.9 mg/kg
Chrysene [Ch]	218-01-9	1.0 mg/kg	NA	1.0 mg/kg	1.0 mg/kg	3.9 mg/kg
Dibenz(a,h)anthracene [Dibenzo]	53-70-3	1,000 mg/kg	NA	0.33 mg/kg	0.33 mg/kg	0.33 mg/kg
Indeno(1,2,3-cd)Pyrene [Indeno]	193-39-5	8.2 mg/kg	NA	0.5 mg/kg	0.5 mg/kg	0.5 mg/kg
Arsenic	7440-38-2	16 mg/kg	13 mg/kg	13 mg/kg	16 mg/kg	16 mg/kg
Mercury	7439-97-6	0.73 mg/kg	0.18 mg/kg	0.18 mg/kg	0.81 mg/kg	0.81 mg/kg

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER TEXACO BEACON RESEARCH CENTER
GLENHAM, NEW YORK
FEASIBILITY STUDY

OU-1E SOIL EXCEEDANCES



FIGURE
3-3



DC-2						
Date	6/21/2019	10/31/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	< 0.5
trans-1.2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	0.5 UJ
Trichloroethene	< 1.0	< 1.0	0.227 J	< 0.5	< 0.5	0.234 J
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0	1.0 UJ	< 1.0

DB-8A						
Date	6/20/2019	10/31/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021
cis-1,2-Dichloroethene	< 1.0	0.32 J	0.153 J	3.84 J	0.915 J	< 0.5
trans-1.2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	0.5 UJ
Trichloroethene	2.6	12	2.15	12.3	7.02	2.71
1,4-Dioxane	< 50	< 50	--	11.8	1.33	--
Hexachlorobutadiene	6.9	< 1.0	2.48	0.793 J	1.47	4.14

DB-17					
Date	6/20/2019	10/31/2019	4/23/2020	4/28/2021	10/6/2021
cis-1,2-Dichloroethene	< 1.0	--	< 1.0	0.5 UJ	< 0.5
trans-1.2-Dichloroethene	< 1.0	--	< 1.0	0.5 UJ	0.5 UJ
Trichloroethene	< 1.0	< 1.0	--	< 0.5	< 0.5
Hexachlorobutadiene	< 1.0	< 1.0	--	< 1.0	< 1.0

OR-3						
Date	6/21/2019	10/30/2019	4/23/2020	10/13/2020	4/27/2021	10/7/2021
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	< 0.5
trans-1.2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	< 0.5
Trichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

OS-3						
Date	6/21/2019	10/30/2019	4/23/2020	10/13/2020	4/27/2021	10/7/2021
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	< 0.5
trans-1.2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	0.5 UJ
Trichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

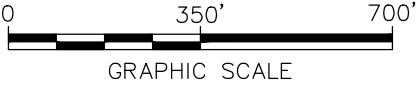
DC-1					
Date	6/21/2019	10/31/2019	4/23/2020	4/27/2021	10/6/2021
cis-1,2-Dichloroethene	2.7	1.5	2.53	2.78 J	3.02
trans-1.2-Dichloroethene	< 1.0	< 1.0	< 1.0	0.5 UJ	0.5 UJ
Trichloroethene	6.9	4.6	5.11	6.38	7.17
Hexachlorobutadiene	< 1.0	< 1.0	0.488 J	0.426 J	0.775

OR-2						
Date	6/21/2019	10/30/2019	4/23/2020	10/12/2020	4/26/2021	10/7/2021
cis-1,2-Dichloroethene	< 1.0	< 1.0	0.217 J	< 0.5	< 0.5	< 0.5 [<0.5]
trans-1.2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	0.5 UJ [0.5 UJ]
Trichloroethene	< 1.0	< 1.0	0.321 J	< 0.5	< 0.5	< 0.5 [<0.5]
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 [<1.0]

OS-2						
Date	6/21/2019	10/30/2019	4/23/2020	10/12/2020	4/26/2021	10/7/2021
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	< 0.5
trans-1.2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	0.5 UJ	0.5 UJ
Trichloroethene	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

- NOTES:**
- ALL UNITS ARE IN MICROGRAMS PER LITER (µg/L).
 - < = NOT DETECTED AT THE LABORATORY METHOD DETECTION LIMIT.
 - J = RESULT DETECTED BETWEEN THE REPORTING LIMIT AND THE METHOD DETECTION LIMIT.
 - = NOT ANALYZED FOR
 - HIGHLIGHTED VALUES INDICATE CONCENTRATION EXCEEDING TOGS 1.1 OR THE NYS DRINKING WATER STANDARD.
 - TOGS = NEW YORK DIVISION OF WATER TECHNICAL AND OPERATIONAL GUIDANCE SERIES.
 - SAMPLING EVENTS SHOWN INCLUDE THE LAST THREE YEARS OF SEMI-ANNUAL SAMPLING.

- SOURCE:**
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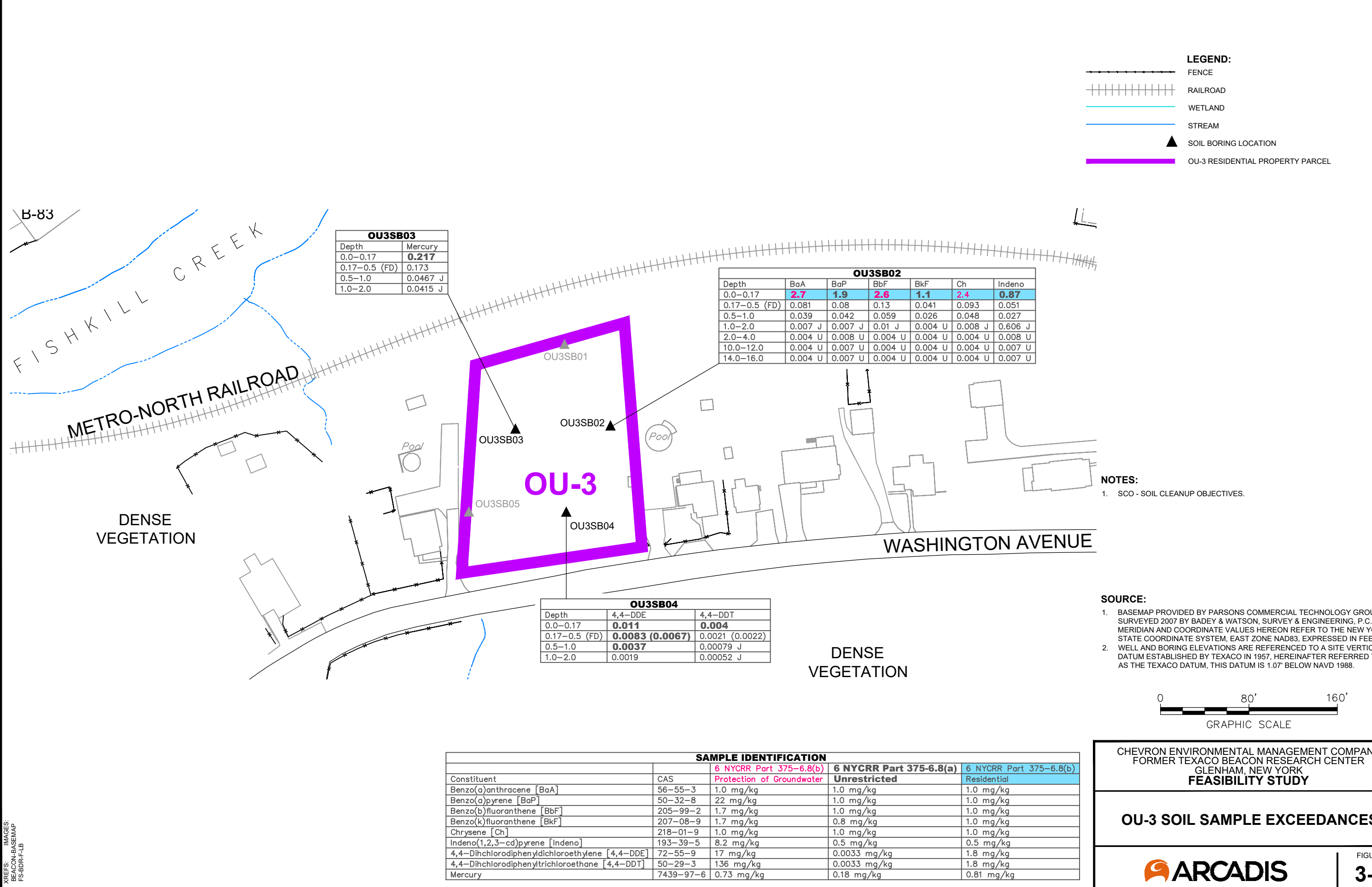
Sample Identification		
Constituent	CAS	NYSDEC Groundwater Criteria
cis-1,2-Dichloroethene	56-55-3	5 ug/L
trans-1.2-Dichloroethene	50-32-8	5 ug/L
Trichloroethene	205-99-2	5 ug/L
1,4-Dioxane	207-08-9	10 ug/L
Hexachlorobutadiene	218-01-9	0.5 ug/L

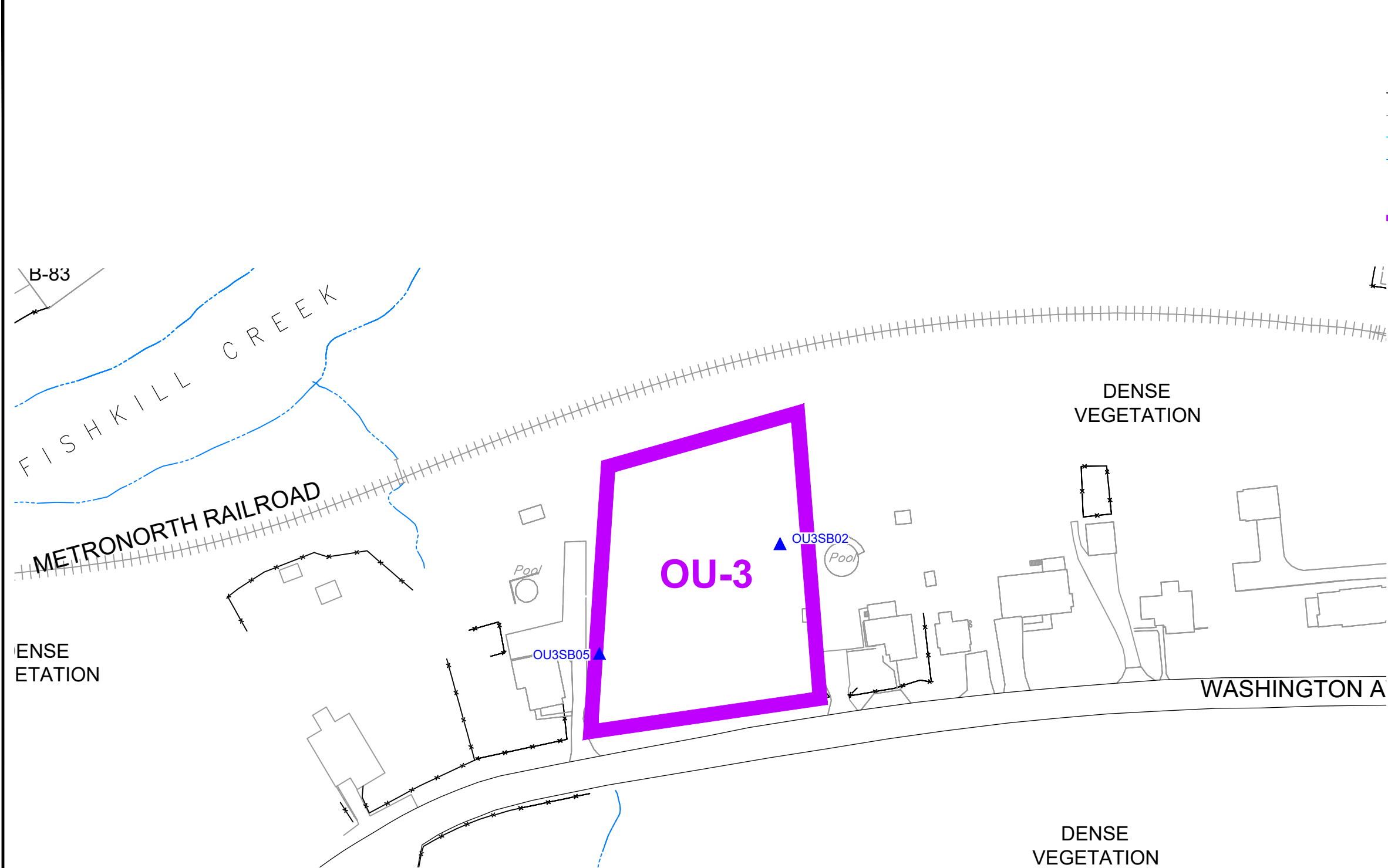
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
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GLENHAM, NEW YORK
FEASIBILITY STUDY

OU-1E GROUNDWATER EXCEEDANCES

ARCADIS

FIGURE
3-4



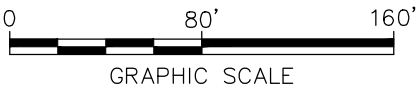


LEGEND:

- FENCE
- RAILROAD
- WETLAND
- STREAM
- SOIL BORING LOCATION CONVERTED INTO TEMPORARY WELL POINT
- OU-3 RESIDENTIAL PROPERTY PARCEL



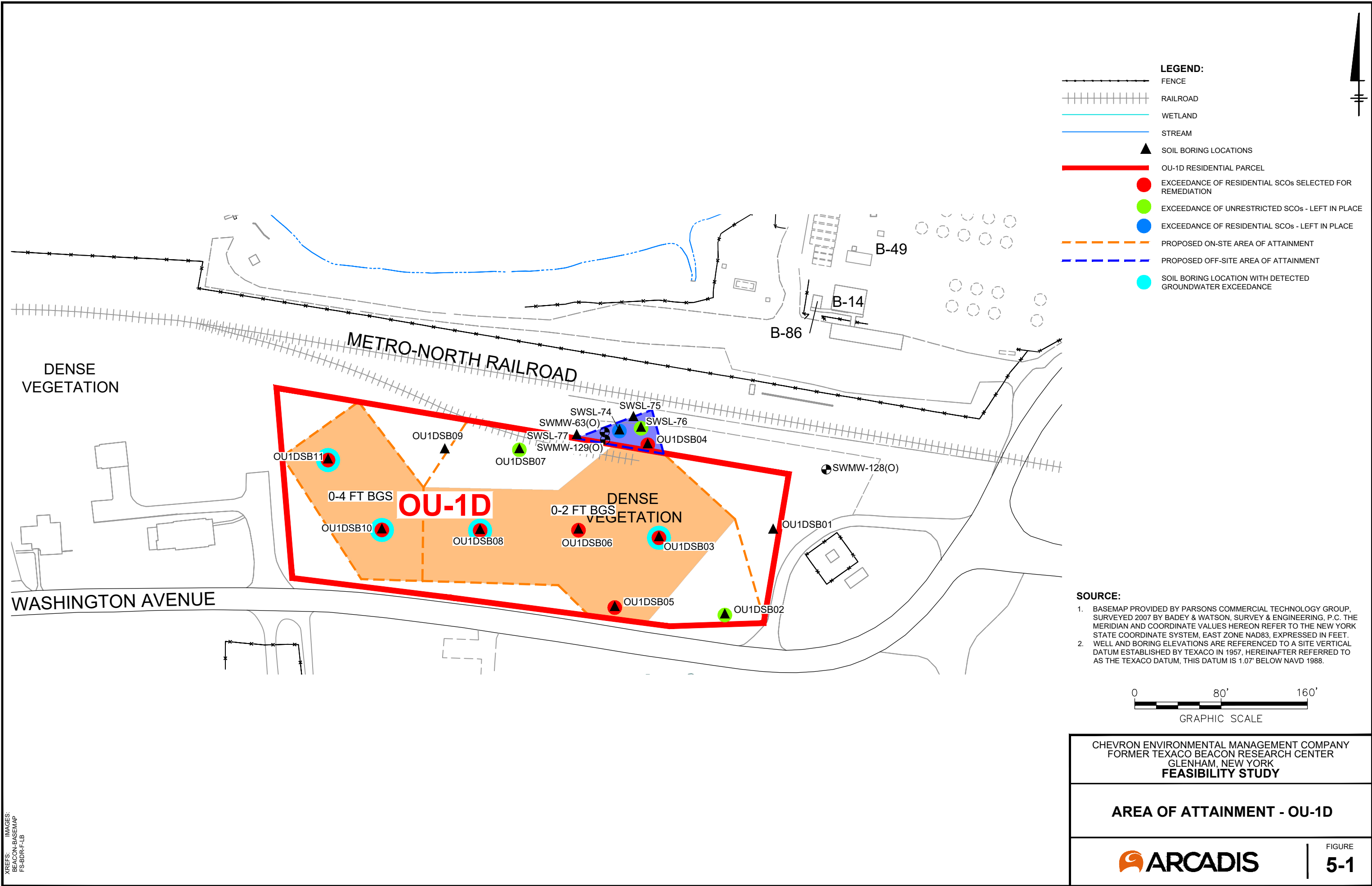
- SOURCE:**
- BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
 - WELL AND BORING ELEVATIONS ARE REFERENCED TO A SITE VERTICAL DATUM ESTABLISHED BY TEXACO IN 1957, HEREINAFTER REFERRED TO AS THE TEXACO DATUM, THIS DATUM IS 1.07' BELOW NAVD 1988.

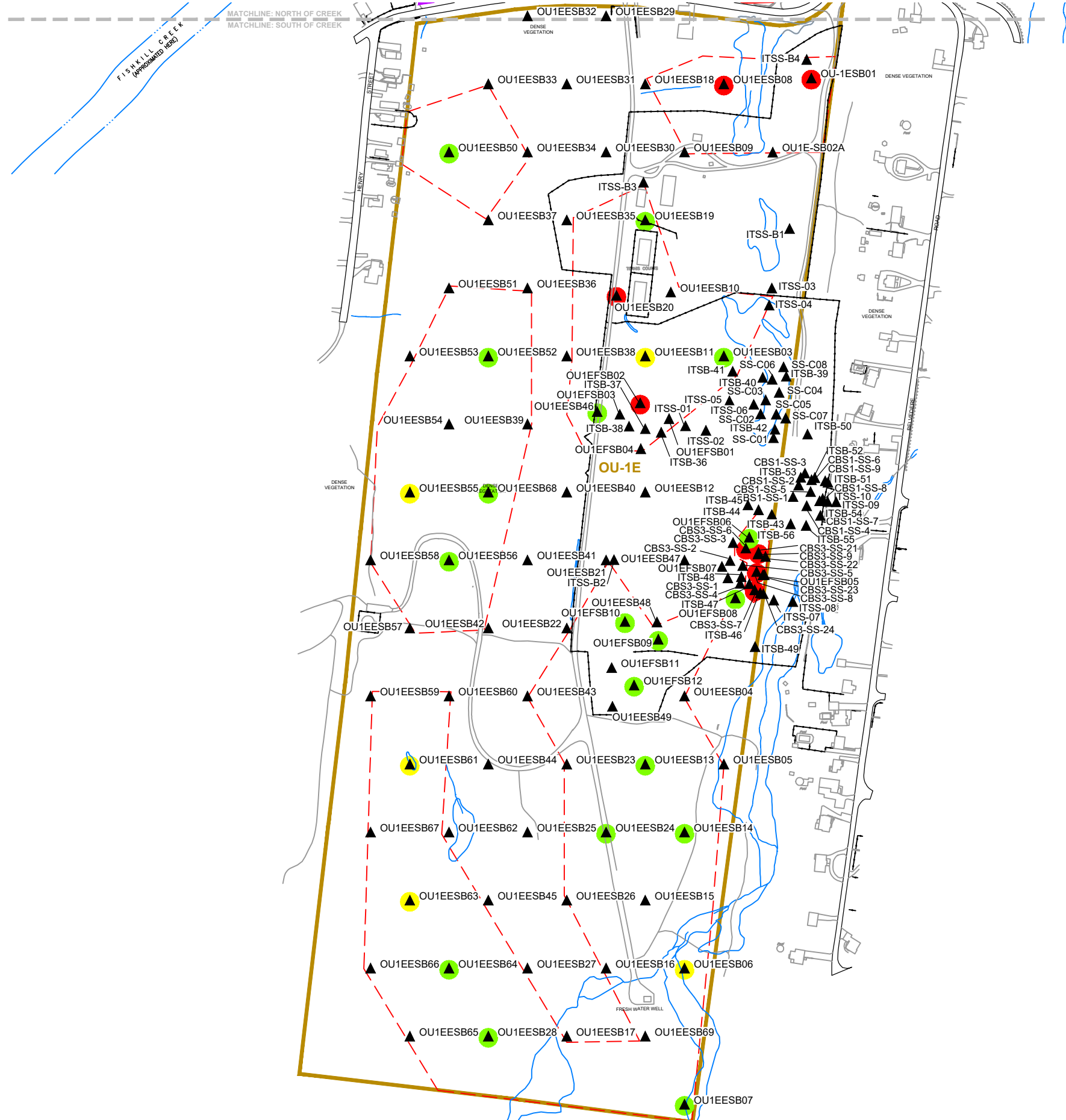


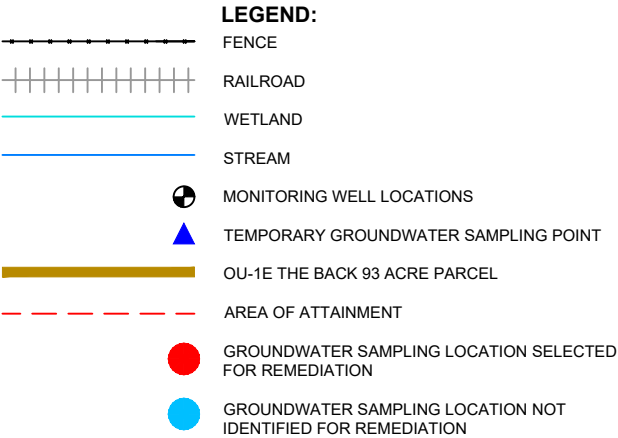
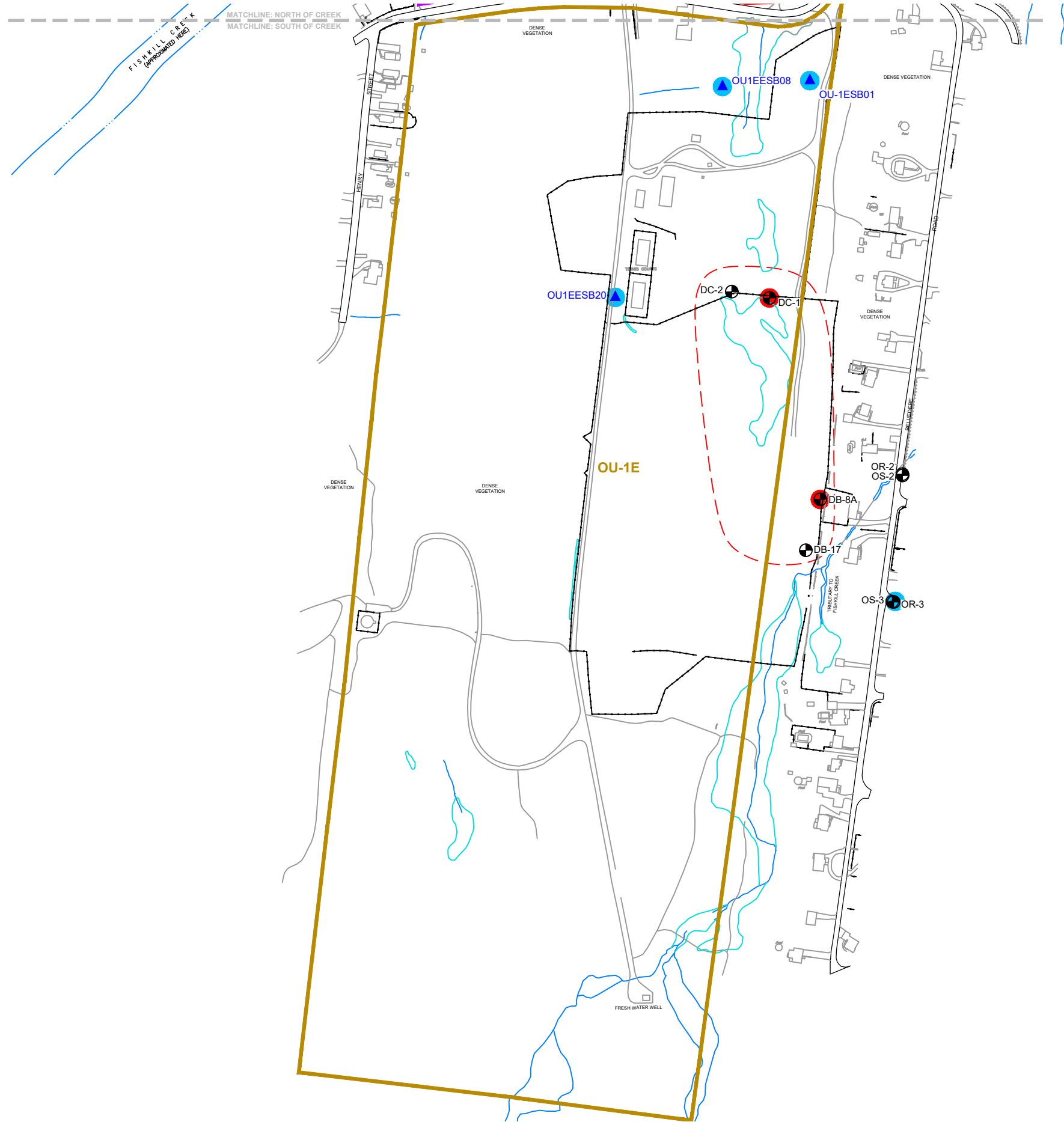
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**OU-3 GROUNDWATER SAMPLING
LOCATIONS**

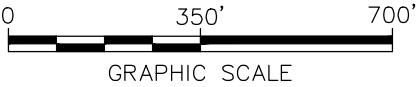
FIGURE
3-6







- SOURCE:**
1. BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
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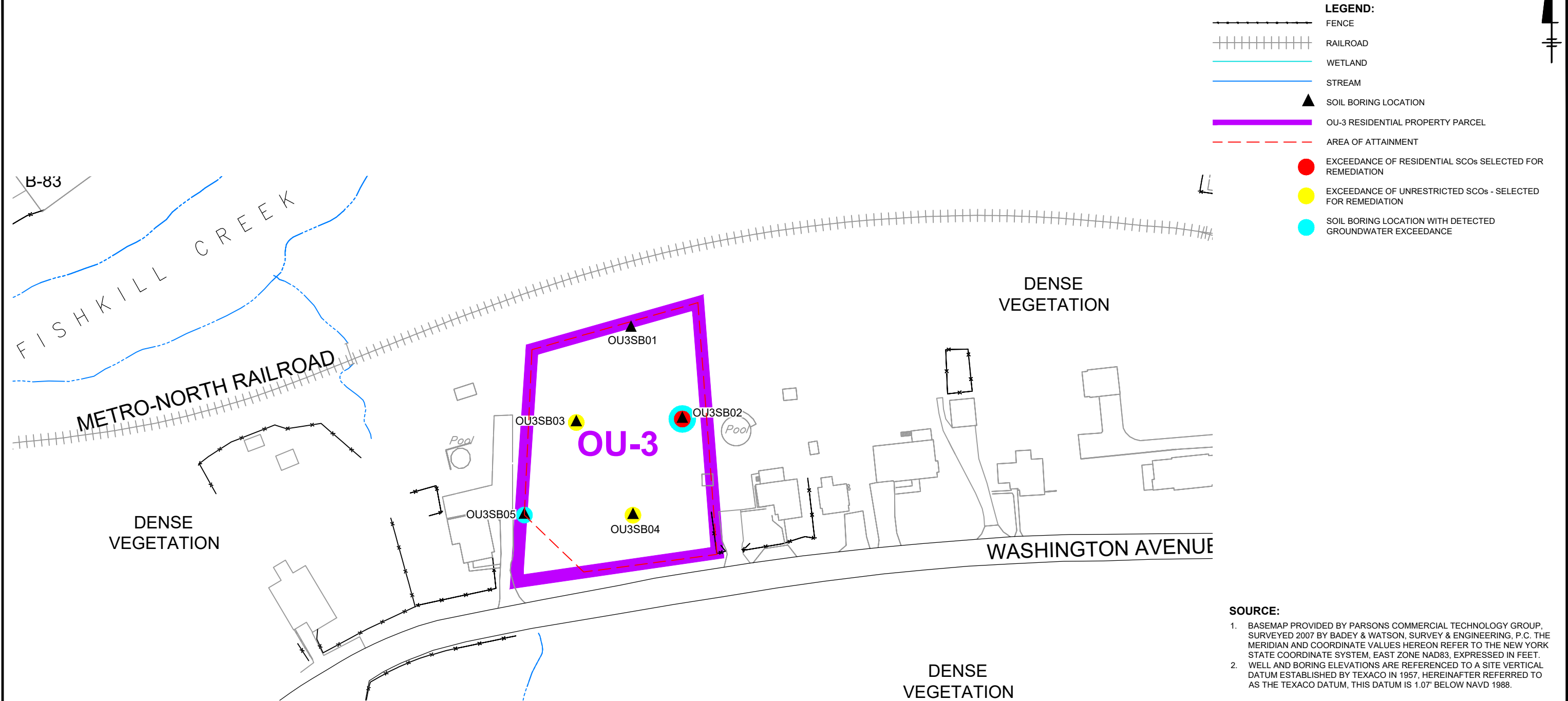


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FEASIBILITY STUDY

**AREA OF ATTAINMENT -
OU-1E GROUNDWATER**

ARCADIS

FIGURE
5-3

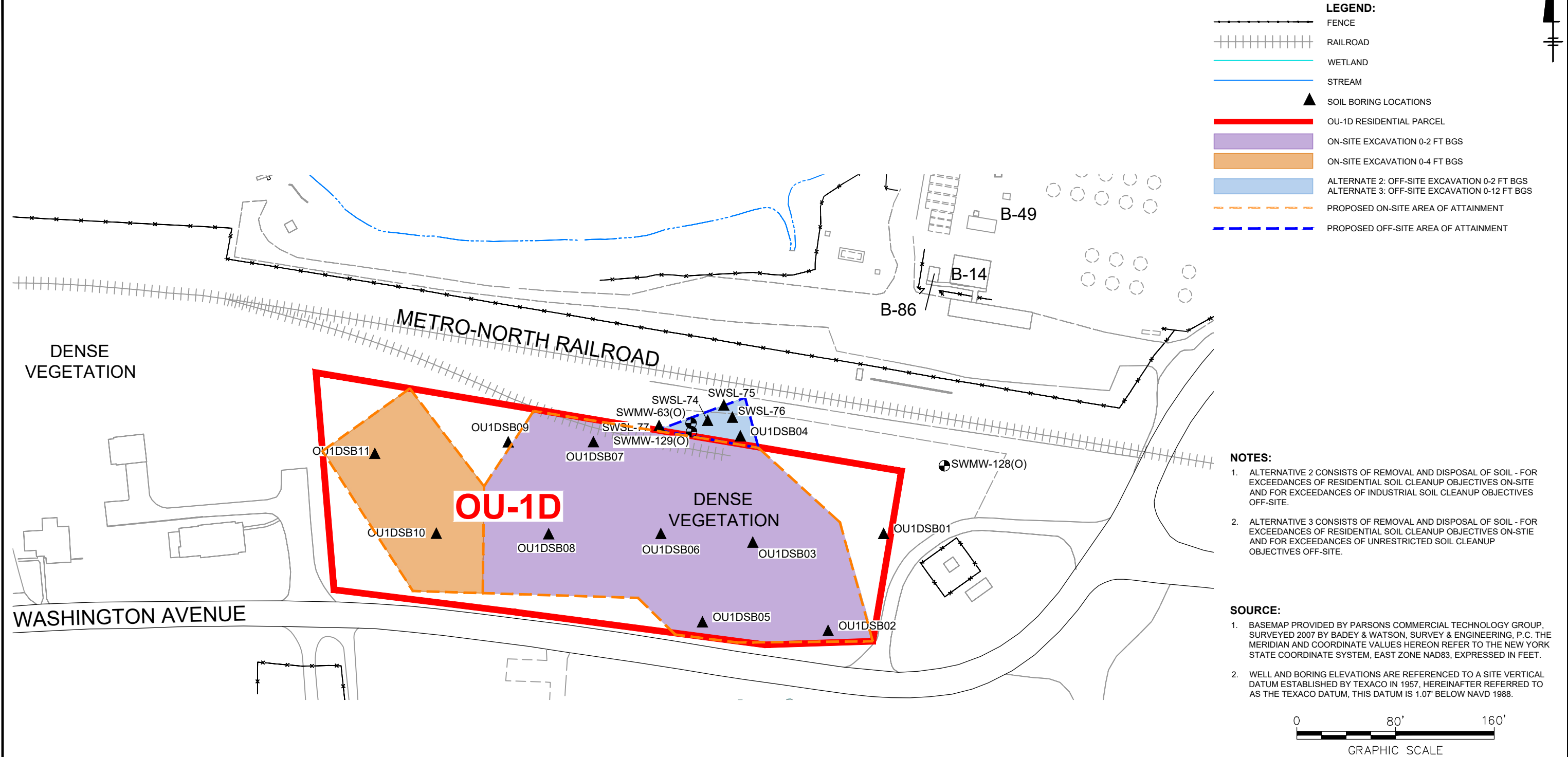


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AREA OF ATTAINMENT - OU-3



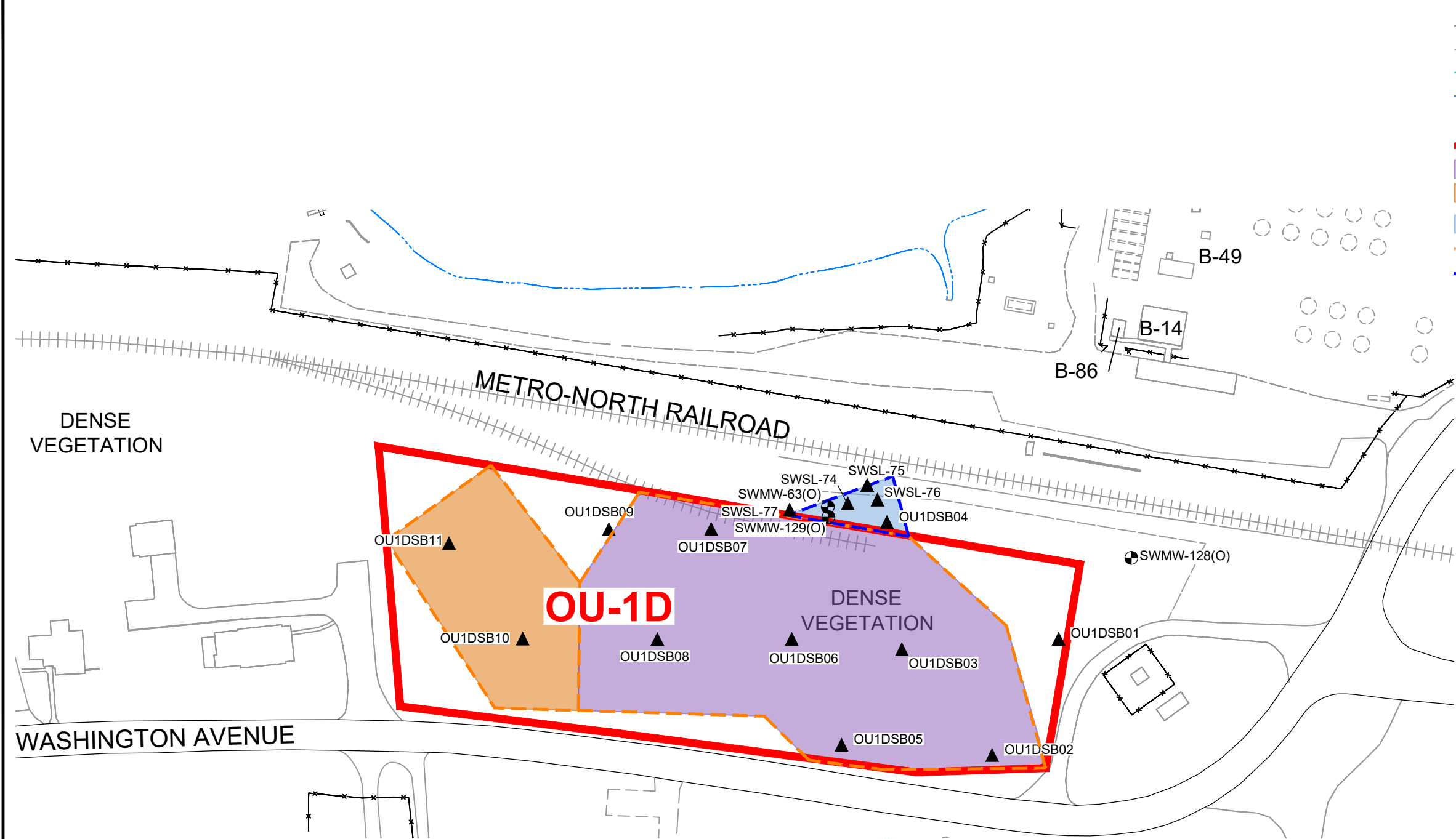
FIGURE
5-4



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OU-1D ALTERNATIVE 2 AND 3

FIGURE
6-1

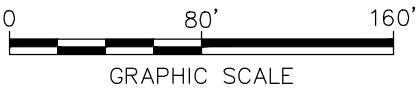


LEGEND:

- FENCE
- RAILROAD
- WETLAND
- STREAM
- SOIL BORING LOCATIONS
- OU-1D RESIDENTIAL PARCEL
- ON-SITE EXCAVATION 0-2 FT BGS
- ON-SITE EXCAVATION 0-4 FT BGS
- ALTERNATIVE 4: OFF-SITE EXCAVATION 0-2 FT BGS
ALTERNATIVE 5: OFF-SITE EXCAVATION 0-12 FT BGS
- PROPOSED ON-SITE AREA OF ATTAINMENT
- PROPOSED OFF-SITE AREA OF ATTAINMENT

- NOTES:**
1. ALTERNATIVE 4 CONSISTS OF REMOVAL AND DISPOSAL OF SOIL - FOR EXCEEDANCES OF UNRESTRICTED SOIL CLEANUP OBJECTIVES ON-SITE AND FOR EXCEEDANCES OF INDUSTRIAL SOIL CLEANUP OBJECTIVES OFF-SITE.
 2. ALTERNATIVE 5 CONSISTS OF REMOVAL AND DISPOSAL OF SOIL - FOR EXCEEDANCES OF UNRESTRICTED SOIL CLEANUP OBJECTIVES ON-SITE AND FOR EXCEEDANCES OF UNRESTRICTED SOIL CLEANUP OBJECTIVES OFF-SITE.

- SOURCE:**
1. BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
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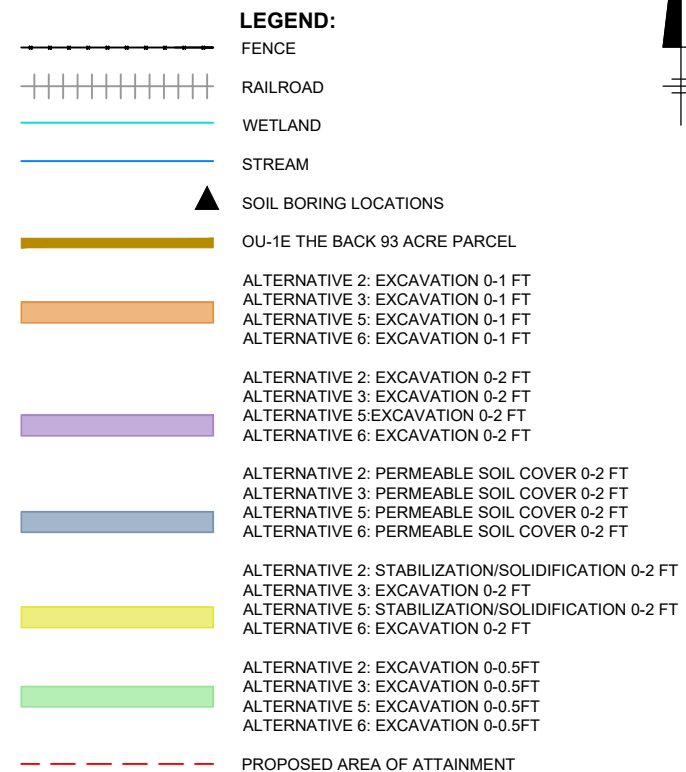


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OU-1D ALTERNATIVE 4 AND 5

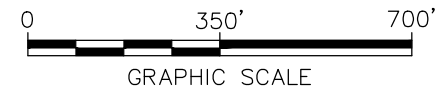
ARCADIS

FIGURE
6-2



1. ALTERNATIVE 2 CONSISTS OF IN-SITU SOIL MIXING AND REMOVAL FOR EXCEEDANCES OF RESTRICTED RESIDENTIAL SCOS & MONITORED NATURAL ATTENUATION FOR GROUNDWATER
2. ALTERNATIVE 3 CONSISTS OF REMOVAL AND DISPOSAL FOR EXCEEDANCES OF RESTRICTED RESIDENTIAL SCOS & MONITORED NATURAL ATTENUATION FOR GROUNDWATER
3. ALTERNATIVE 5 CONSISTS OF IN-SITU SOIL MIXING AND REMOVAL FOR EXCEEDANCES OF RESTRICTED RESIDENTIAL SCOS & ANAEROBIC BIOREMEDIATION FOR GROUNDWATER
4. ALTERNATIVE 6 CONSISTS OF REMOVAL AND DISPOSAL FOR EXCEEDANCES OF RESTRICTED RESIDENTIAL SCOS & ANAEROBIC BIOREMEDIATION FOR GROUNDWATER.

1. BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
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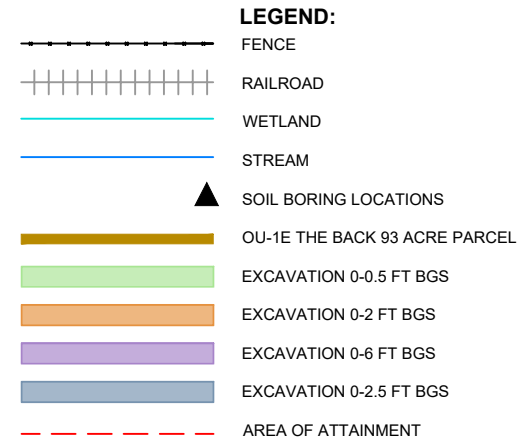
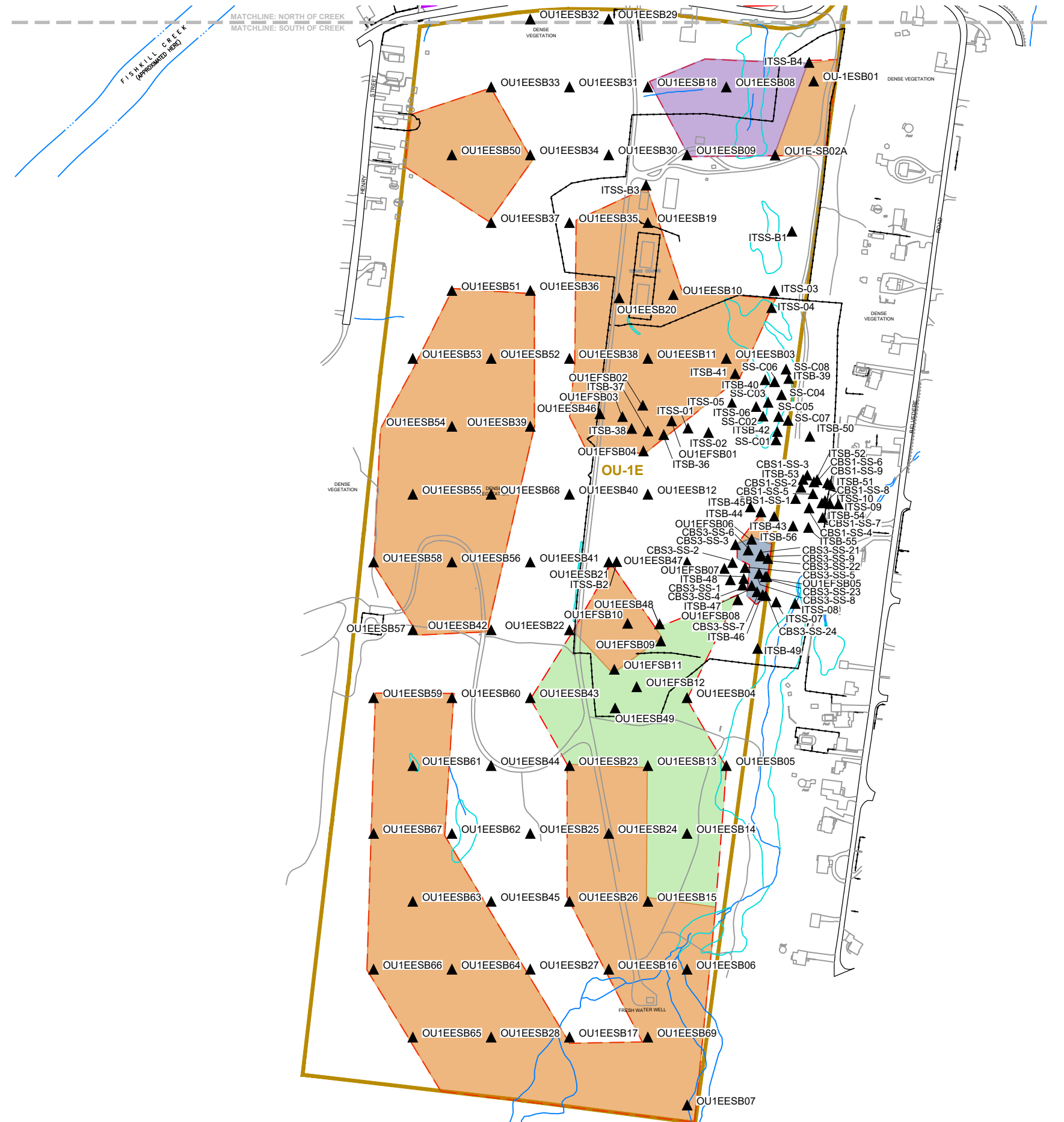


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OU-1E ALTERNATIVES 2, 3, 5, AND 6



FIGURE
6-3

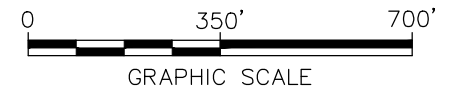


NOTES:

1. ALTERNATIVE 4 CONSISTS OF REMOVAL AND DISPOSAL FOR EXCEEDANCES OF UNRESTRICTED SCOS & MONITORED NATURAL ATTENUATION FOR GROUNDWATER
2. ALTERNATIVE 6 CONSISTS OF REMOVAL AND DISPOSAL FOR EXCEEDANCES OF UNRESTRICTED SCOS & ANAEROBIC BIOREMEDIATION FOR GROUNDWATER

SOURCE:

1. BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
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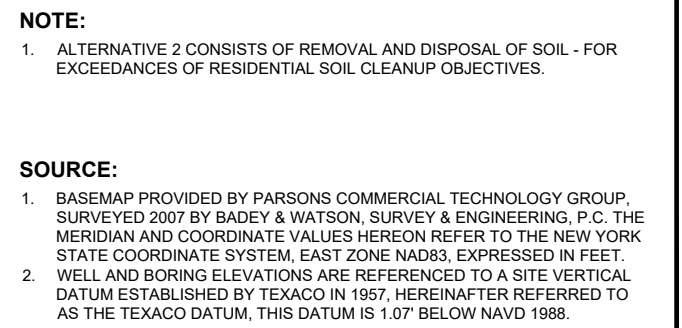


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OU-1E ALTERNATIVES 4 & 6



FIGURE
6-4



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OU-3 ALTERNATIVE 2


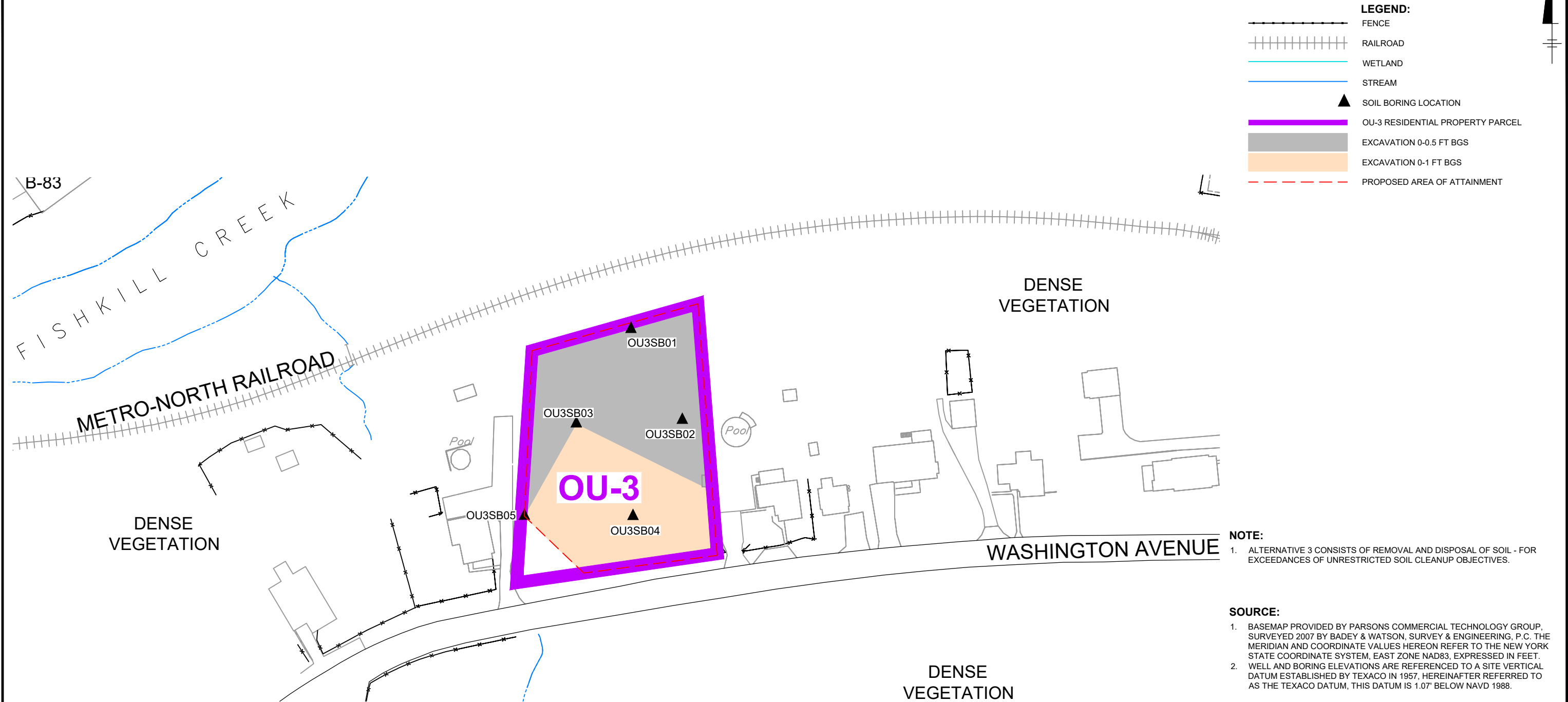
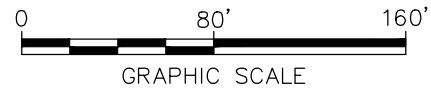
 **ARCADIS**

FIGURE
6-5



NOTE:
1. ALTERNATIVE 3 CONSISTS OF REMOVAL AND DISPOSAL OF SOIL - FOR EXCEEDANCES OF UNRESTRICTED SOIL CLEANUP OBJECTIVES.

SOURCE:
1. BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
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OU-3 ALTERNATIVE 3	
	FIGURE 6-6

Appendix A

Order on Consent

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

In the Matter of the
Development and Implementation
of a Remedial Program for an
Inactive Hazardous Waste Disposal
Site under Article 27, Titles 9 and 13, and,
Article 71 of the Environmental Conservation Law

By

Chevron U.S.A. Inc. ("Respondent").

ORDER ON CONSENT

Index # 03-1112-08-12

Site # 314004

WHEREAS,

1. A. The New York State Department of Environmental Conservation ("Department") is responsible for inactive hazardous waste disposal site remedial programs pursuant to Article 27, Title 13 of the Environmental Conservation Law ("ECL") and Part 375 of Title 6 of the Official Compilation of Codes, Rules and Regulations ("6 NYCRR") and may issue orders consistent with the authority granted to the Commissioner by such statute.

B. The Department is also responsible for the Resource Conservation and Recovery Act Program (RCRA a/k/a the "Industrial Hazardous Waste Management Program") pursuant to Article 27, Title 9 of the ECL and 6 NYCRR Parts 370 – 373.

C. The Department is responsible for carrying out the policy of the State of New York to conserve, improve and protect its natural resources and environment and control water, land and air pollution consistent with the authority granted to the Department and the Commissioner by Article 1, Title 3 of the ECL.

D. This Order is issued pursuant to the Department's authority under, *inter alia*, ECL Article 27, Titles 9 and 13, ECL Article 71-2727 and ECL 3-0301.

2. Respondent Chevron U.S.A. Inc. is a business corporation authorized to do business in the State of New York. Respondent presently owns and previously operated a research and testing facility on Old Glenham Road, Town of Fishkill, Dutchess County, New York, and is the permittee on the RCRA permit for this facility (hereinafter the "Site"). A map depicting the general boundaries of the Site and the tax parcels is attached hereto as Exhibit A.

3. Respondent has performed corrective action activities at the Site including numerous investigations to determine the nature and extent of chemicals present in the soil, vapor and groundwater; removal and/or closure of potential sources; installation, operation, maintenance, and monitoring of groundwater extraction and remediation systems; routine groundwater monitoring and reporting, all as per Department approved work plans.
4. The southern portion of the Site is listed as a class 4 site with a site number of 356002 in the *Registry of Inactive Hazardous Waste Disposal Sites in New York State*.
5. Respondent is currently listed as permittee for a 6 NYCRR Part 373 permit that governs corrective action, closure, and post-closure activities on portions of the Site (RCRA Permit No. 3-1330-00048/16-0) (the "RCRA Permit") and is also the holder of EPA identification numbers NYD091894899 which covers the entire approximately 150 acre site and NYR00004853 with the following facility name: Texaco Research & Development, Washington Ave, Sereda Property, Glenham, NY 12527-9999, for the generation, transportation and disposal of hazardous waste and a third EPA Hazardous Waste Identification Number NYR00001321 (the "EPA Hazardous Waste Generation Identification Number").
6. Respondent is currently the holder of a Major Oil Storage Facility License ("MOSF") number 3-2780 for a portion of the Site upon which petroleum bulk storage tanks were situated.
7. In connection with Respondent's operation and use of the Site, there were petroleum spills, which were reported to the Department and assigned Spill Numbers which are listed on the Department's Spill Incident Database.
8. The purpose of this Order includes the following:
 - (a) Termination of the RCRA permit and incorporation of all requirements thereunder into this Order.
 - (b) Identify the area subject to the RCRA requirements, including corrective actions, closure activities and post closure care.
 - (c) Evaluate the existing investigation and remediation activities completed to date on the Site to determine whether areas within the Site boundaries require additional investigation and/or remediation.
 - (d) Identify appropriate Operable Units and the process to in the future remove Operable Units from the Order.
 - (e) Complete the RCRA requirements for Corrective Action, Closure and Post Closure Care for the facility.
 - (f) Define the appropriate boundaries of the class 4 listed Inactive Hazardous Waste site.
 - (g) Close the MOSF License.
 - (h) Investigate and remediate any and all petroleum spills associated with the Site.
 - (i) Ensure that all of Respondent's obligations pursuant to any State law, rule, regulation, permit, program or otherwise regarding the environment or the past operation of the Site, including, but not limited to (i) those enumerated in this Order; (ii) those presently existing, but not detailed herein; and (iii) any future

obligations identified and which the Department and Respondent agree should be incorporated herein, are governed by this Order.

9. Respondent consents to the issuance of this Order without (i) an admission or finding of liability, fault, wrongdoing, or violation of any law, regulation, permit, order, requirement, or standard of care of any kind whatsoever; (ii) an acknowledgment that there has been a release or threatened release or disposal of hazardous waste, hazardous substances or petroleum at or from the Site; and/or (iii) an acknowledgment that a release or threatened release of hazardous waste, hazardous substances or petroleum at or from the Site constitutes a significant threat to the public health or environment.

10. Solely with regard to the matters set forth below, Respondent hereby waives any right to a hearing as may be provided by law, consent to the issuance and entry of this Order, and agrees to be bound by its terms. Respondent consents to and agrees not to contest the authority or jurisdiction of the Department to issue or enforce this Order in accordance with its terms, and agrees not to contest the validity of this Order or its terms.

NOW, having considered this matter and being duly advised, **IT IS ORDERED THAT:**

I. Effect of Order

The RCRA Permit is hereby superseded and terminated by this Order. Activities taken by Respondent at the Site will be subject to the terms and provisions of this Order and will be taken pursuant to one or more Department approved work plans to be developed under and in accordance with the terms of this Order. However, any regulatory fees that would be due under the RCRA Permit up to June 1, 2013 will remain due and payable as if the RCRA Permit continued to exist for this site.

- A. Upon the Department's approval of the investigation, remediation, and post-remediation monitoring plan of the MOSF at the site, the MOSF license shall be terminated and the MOSF shall be deemed closed by the Department.
- B. Respondent and the Department shall cooperatively commence the process to terminate the EPA Hazardous Waste Identification Numbers NYR00001321 and NYR00004853 issued to Respondent.
- C. Any and all petroleum spills associated with the Site will be investigated and remediated in accordance with this Order.
- D. The Class 4 Inactive Hazardous Waste Site shall be subject to the terms and provisions of this Order.
- E. This Order shall not in any way regulate or affect the State Pollution Discharge Elimination Permit ("SPDES") or Dam permit issued for this Site.

- F. All prior agreements, Orders on Consent or the like between Respondent and the Department concerning the Site are terminated and all obligations pursuant to such agreements shall be governed by the terms and provisions of this Order.

II. Evaluation of Operable Units and Existing Conditions

- A. Respondent has set forth in paragraph (B) below (and the Department has approved) four (4) Operable Units for the Site. An overall site plan identifying the Operable Units is attached as Exhibit B. The Department recognizes the expected future use for some of these Operable Units are not known at this time and Respondent shall identify proposed categories of general usage for such Operable Unit within 120 days after the Department has accepted the Remedial Action Work Plan for final remediation of each Operable Unit. If in the future an Operable Unit's intended use shall change, Respondent shall complete all investigation and remediation activities as determined by the Department, in order to complete remediation of each Operable Unit for the new proposed use. Respondent shall also have the right, in its sole discretion, to propose for the Department's approval additional Operable Units or division of the Operable Units set forth in paragraph (B) below into additional discrete Operable Units. The Department may propose additional Operable Units or division of existing Operable Units. Upon the Department's approval of any future proposed Operable Units, Respondent shall submit appropriate workplans, in accordance with approved schedules for completion of the investigation and remediation required for such newly approved Operable Unit.
- B. The Department hereby approves the following Operable Units:
- (1) Operable Unit - 1 ("OU-1") – the "Remainder of the Chevron Properties." A site plan is attached as Exhibit "B." OU-1 is the Chevron parcel known as Lot 1 (Tax Parcel 839339), Lot 2 (Tax Parcel 908283) (including land on Lots 1 and 2 located underneath the Fishkill Creek), the Church Street parcels (Tax Parcels 730327 and 686282), the former rail siding lot (Tax Parcel 879250) and the approximately 90 acre parcel (which includes the Class four Inactive Hazardous Waste site) (Tax Parcel 835088);
 - (2) Operable Unit - 2 ("OU-2") – the "Washington Avenue Road Dedication Parcel." A site plan depicting OU-2 is attached as Exhibit "C." OU-2 is an approximately 10,163 square foot (0.233 acre) area of the existing Washington Avenue which had not been previously dedicated to the Town of Fishkill (the "Town"). This property is located outside the fenced portion of Respondent's property and the Town has operated and maintained this portion of the road for decades as though it had been previously accepted for dedication;
 - (3) Operable Unit - 3 ("OU-3") – the "0.67 Acre Vacant Parcel." A site plan of OU-3 is attached as Exhibit "D." OU-3 is the approximate 0.67 acre vacant parcel

identified as (no number) Washington Avenue and identified on the Dutchess County Tax Map as Parcel ID No. 795253; and

- (4) Operable Unit - 4 ("OU-4") – the "Hydro Electric Facility & Dam – Lot 3." A site plan depicting OU - 4 is attached as Exhibit "E." OU – 4 is identified as "Lot 3" on the Subdivision Map filed in the Dutchess County Clerk's Office as Filed Map No. 12406 on August 21, 2012. This Operable Unit includes the Hydro-Electric Facility, Dam, land underneath the Fishkill Creek and the Buildings commonly referred to as Buildings 2, 3, 4, 5 and 6, all located on a 4.033 acre parcel identified on the Dutchess County Tax Map as parcel 812290 with access from Washington Avenue and via an easement to Old Glenham Road.

III. Development, Performance and Reporting of Work Plans

A. Work Plans

All activities for the Operable Units, the MOSF and any petroleum spills shall be conducted pursuant to one or more Department-approved work plans ("Work Plan" or "Work Plans"), which must be developed in accordance with DER-10, and this Order and all activities shall be consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. Part 300, as required under CERCLA, 42 U.S.C. § 9600 *et seq.* The Work Plan(s) under this Order shall address both on-Site and any off-Site conditions associated with historic on-Site activities which may exist and shall be developed and implemented in accordance with 6 NYCRR § 375-1.6(a). All Department-approved Work Plans shall be incorporated into and become enforceable parts of this Order. Upon approval of a Work Plan by the Department, Respondent shall implement such Work Plan in accordance with the schedule contained therein. Nothing in this Subparagraph shall mandate that any particular Work Plan be submitted. Each Work Plan submitted shall use one of the following captions on the cover page:

1. Supplemental Site Characterization ("SC") Work Plan: a Work Plan whose objective is to identify the presence of any hazardous waste disposal at the Site, and/or to delineate the boundaries of operable units where hazardous wastes may be present;
2. Supplemental Remedial Investigation/Feasibility Study ("RI/FS") or RCRA Facility Investigation/Corrective Measures Study ("RFI/CMS") Work Plan: a Work Plan whose objective is to perform a Remedial Investigation and a Feasibility Study or a RCRA Facility Investigation and Corrective Measures Study, in order to recommend additional remedial action or corrective action;
3. Interim Remedial or Corrective Measure ("IRM" or "ICM") Work Plan: a Work Plan whose objective is to provide for an interim remedial or corrective measure.
4. Citizen Participation ("CP") Plan: a Work Plan whose objective is to provide a process for the affected and interested public to become informed about site issues and to effectively participate in the decision making process for site remedial, corrective, or closure actions.

5. Supplemental Remedial Design/Remedial Action ("RD/RA") or Corrective Measure Implementation ("CMI") Work Plan: a Work Plan whose objective is to provide for the development and implementation of final plans and specifications for implementing the remedial alternatives set forth in a ROD or Statement of Basis.

6. Site Management Plan ("SMP") or Closure/Post-Closure Plan ("PCP"): a Work Plan whose objective is to identify and implement the institutional and engineering controls required for the Site or to develop and implement final plans to close a hazardous waste facility, as well as any necessary monitoring and/or operation and maintenance of remedial or corrective measures. An Interim Site Management Plan is a Work Plan with this objective that pertains to an Operable Unit or portion thereof.

B. Submission/Implementation of Work Plans

1. (a) Within sixty (60) days of the Department's determination that supplemental investigation and/or remediation is required for an operable unit, Respondent will submit one or more Work Plans identified in Paragraph III.A pertaining to such operable unit. Such Work Plans may be documents previously developed pursuant to the RCRA Permit, or modifications thereof, captioned pursuant to Paragraph III.A.

(b) The Department may request that Respondent submit additional or supplemental Work Plans for the Site. Within thirty (30) days after the Department's written request, Respondent shall advise the Department in writing whether the requested additional or supplemental Work Plan will be submitted and implemented. If Respondent elects to submit and implement such Work Plan, Respondent shall submit the requested Work Plan within sixty (60) days after such election.

(c) Respondent may opt to propose one or more additional or supplemental Work Plans at any time, which the Department shall review for appropriateness and technical sufficiency.

(d) Any request made by the Department under Subparagraph III.B.1.(b) shall be subject to dispute resolution pursuant to Paragraph XI.

2. A Professional Engineer must stamp and sign all Work Plans, except as otherwise authorized by DER-10-1.5.

3. During all field activities conducted under this Order, Respondent shall have on-Site a representative who is qualified to supervise the activities undertaken. Such representative may be an employee or a consultant retained by Respondent to perform such supervision as provided at 6 NYCRR Part 375-1.6(a)(3).

C. Modifications to Work Plans

The Department shall notify Respondent in writing if the Department determines that any elements of a Department-approved Work Plan needs to be modified in order to achieve the objectives of the Work Plan as set forth in Subparagraph III.A or to ensure that the remedial objectives otherwise protects human health and the environment. Upon receipt of such notification, Respondent shall either provide written notification as provided at 6 NYCRR 375-1.6(d)(3) as to whether it will modify the Work Plan, or invoke dispute resolution.

D. Submission of Final Reports and Periodic Review Reports

1. In accordance with the schedule contained in a Work Plan, Respondent shall submit a final report as provided at 6 NYCRR 375-1.6(b) and a final engineering report as provided at 6 NYCRR 375-1.6(c).

2. Any final report or final engineering report that includes construction activities shall include "as built" drawings showing any changes made to the remedial action design, or the IRM/ICM.

3. In the event that the final engineering report for the Site requires Site Management or Post-Closure care, including those which may be subject to an Environmental Easement, as further described in Section XI, hereof, Respondent shall submit a Periodic Review Report by the 18-month anniversary of the start of Site Management. Such Periodic Review Report shall be signed by a Professional Engineer or by such other qualified environmental professional as the Department may find acceptable and shall contain a certification as provided at 6 NYCRR 375-1.8(h)(3). Respondent shall submit subsequent Periodic Review Reports in accordance with the schedule specified by the Department. Respondent may petition the Department for a determination that the institutional and/or engineering controls may be terminated. Such petition must be supported by a statement by a Professional Engineer that such controls are no longer necessary for the protection of public health and the environment. The Department shall not unreasonably withhold its approval of such petition.

4. Within sixty (60) days after the Department's approval of a final report, Respondent shall submit such final report, as well as all data gathered and drawings and submittals made pursuant to such Work Plan, in an electronic format acceptable to the Department. If any document cannot be converted into electronic format, Respondent shall submit such document in an alternative format acceptable to the Department.

E. Review of Submittals

1. The Department shall make a good faith effort to review and respond in writing to each submittal Respondent makes pursuant to this Order within sixty (60) days. The Department's response shall include, as provided at 6 NYCRR 375-1.6(d), an approval, modification request, or disapproval of the submittal, in whole or in part.

2. Upon the Department's written approval of a Work Plan, such Department approved Work Plan shall be deemed to be incorporated into and made a part of this Order and shall be implemented in accordance with the schedule contained therein.

3. If the Department modifies or requests modifications to a submittal, it shall specify the reasons for such modification(s). Within thirty (30) days after the date of the Department's written notice that Respondent's submittal has been disapproved, Respondent shall notify the Department of its election as provided at 6 NYCRR 375-1.6(d)(3). If Respondent elects to modify or accept the Department's modifications to the submittal, Respondent shall, within sixty (60) days after such election, make a revised submittal that incorporates all of the Department's modifications to the first submittal. In the event that Respondent's revised submittal is disapproved, the Department shall set forth its reasons for such disapproval in writing and Respondent shall be in violation of this Order unless it invokes dispute resolution pursuant to Paragraph XII and its position prevails. Failure to make an election or failure to comply with the election is a violation of this Order.

4. If the Department disapproves a submittal, it shall specify the reasons for its disapproval. Within thirty (30) days after the date of the Department's written notice that Respondent's submittal has been disapproved, Respondent shall notify the Department of its election as provided at 6 NYCRR 375-1.6(d)(4). If Respondent elects to modify the submittal, Respondent shall, within sixty (60) days after such election, make a revised submittal that addresses all of the Department's stated reasons for disapproving the first submittal. In the event that Respondent's revised submittal is disapproved, the Department shall set forth its reasons for such disapproval in writing and Respondent shall be in violation of this Order unless it invokes dispute resolution pursuant to Paragraph XII and its position prevails. Failure to make an election or failure to comply with the election is a violation of this Order.

F. Citizen Participation

Within 90 (ninety) days of the effective date of this Order, Respondent will submit a Citizen Participation Plan ("CP Plan") in accordance with the Citizen Participation Handbook for Remedial Programs for the Department's approval. Respondent shall cooperate with the Department and provide reasonable assistance, consistent with the CP Plan, in soliciting public comment on the Work Plans and Reports identified for public comment in the CP Plan, and additional Work Plans and/or Reports as the Department may require.

G. Release and Covenant Not to Sue

1. Upon the Department's issuance of a Certificate of Completion as provided at 6 NYCRR 375-1.9 and 375-2.9, Respondent shall obtain the benefits conferred by such provisions and such provisions shall inure to the benefit of subsequent owners of any Operable Unit provided they remain in compliance with the Site Management Plan(s).

2. Respondent may request an assignable release and covenant not to sue letter for an OU for which Respondent has submitted an interim Final Engineering Report ("FER"), in a form similar to Exhibit G. The Department may issue such a release and covenant not to sue for that OU, subject to the Department's approval of a final engineering report for the entire Site. Even if the Department issues a release and covenant not to sue for an OU,

Respondent must still submit an FER and Final SMP for the entire site, when the investigation and remediation activities have been completed for the entire site.

IV. Penalties

A. Respondent's failure to comply with any term of this Order constitutes a violation of this Order and the ECL.

B. Respondent shall not suffer any penalty or be subject to any proceeding or action in the event it cannot comply with any requirement of this Order as a result of any event arising from causes beyond the reasonable control of Respondent, of any entity controlled by Respondent, and of Respondent's contractors, that delays or prevents the performance of any obligation under this Order despite Respondent's best efforts to fulfill the obligation ("Force Majeure Event"). The requirement that Respondent exercises best efforts to fulfill the obligation includes using best efforts to anticipate the potential Force Majeure Event, best efforts to address any such event as it is occurring, and best efforts following the Force Majeure Event to minimize delay to the greatest extent possible. "Force Majeure" does not include Respondent's economic inability to comply with any obligation, the failure of Respondent to make complete and timely application for any required approval or permit, and non-attainment of the goals, standards, and requirements of this Order.

2. Respondent shall notify the Department in writing within fifteen (15) days after it obtains knowledge of any Force Majeure Event. Respondent shall include in such notice the measures taken and to be taken to prevent or minimize any delays and shall request an appropriate extension or modification of this Order. Failure to give such notice within such fifteen (15) Day period constitutes a waiver of any claim that a delay is not subject to penalties. Respondent shall be deemed to know of any circumstance which it, any entity controlled by it, or its contractors knew or should have known.

3. Respondent shall have the burden of proving by a preponderance of the evidence that (i) the delay or anticipated delay has been or will be caused by a Force Majeure Event; (ii) the duration of the delay or the extension sought warranted under the circumstances; (iii) best efforts were exercised to avoid and mitigate the effects of the delay; and (iv) Respondent complied with the requirements of Subparagraph V.B.2 regarding timely notification.

4. If the Department agrees that the delay or anticipated delay is attributable to a Force Majeure Event, the time for performance of the obligations that are affected by the Force Majeure Event shall be extended for such time as is reasonably necessary to complete those obligations.

V. Entry upon Site

A. Respondent hereby consents, upon reasonable notice under the circumstances presented, to entry upon the Site (or areas in the vicinity of the Site which may be under the control of Respondent) by any duly designated officer or employee of the Department or any

State agency having jurisdiction with respect to matters addressed pursuant to this Order, and by any agent, consultant, contractor, or other person so authorized by the Commissioner, all of whom shall abide by the health and safety rules in effect for the Site, for inspecting, sampling, copying records related to the contamination at the Site, testing, and any other activities necessary to ensure Respondent's compliance with this Order. Upon request, Respondent shall (i) provide the Department with suitable work space at the Site, including access to a telephone, to the extent available, and (ii) permit the Department full access to all non-privileged records relating to matters addressed by this Order. Raw data is not considered privileged and that portion of any privileged document containing raw data must be provided to the Department. In the event Respondent is unable to obtain any authorization from third-party property owners necessary to perform its obligations under this Order, the Department may, consistent with its legal authority, assist in obtaining such authorizations.

B. The Department shall have the right to take its own samples and scientific measurements and the Department and Respondent shall each have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled. The Department shall make the results of any such sampling and scientific measurements available to Respondent.

VI. Payment of State Costs

A. Within sixty (60) Days after receipt of an itemized invoice from the Department, Respondent shall pay to the Department a sum of money which shall represent reimbursement for State Costs incurred after January 1, 2012, as provided in 6 NYCRR 375-1.5(b)(3).

B. Within sixty (60) Days after receipt of an itemized invoice from the Department, Respondent shall pay to the Department a sum of money which shall represent reimbursement for State Costs, other than those identified in Subparagraph V.A. for work performed at or in connection with the Site through and including the Termination Date, as provided in 6 NYCRR 375-1.5(b)(3).

C. Personal service costs shall be documented as provided by 6 NYCRR 375-1.5(b)(3)(ii). The Department shall not be required to provide any other documentation of costs, provided however, that the Department's records shall be available consistent with, and in accordance with, Article 6 of the Public Officers Law.

D. Such invoice shall be sent to Respondent at the following address:

E. Each such payment shall be made payable to the Department of Environmental Conservation and shall be sent to:

Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7010

F. Each party shall provide written notification to the other within ninety (90) Days of any change in the foregoing addresses.

G. Respondent may contest invoiced costs as provided at 6 NYCRR 375-1.5(b)(3)(v) and (vi).

VII. Reservation of Rights

A. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's rights or authorities, including, but not limited to, the right to require performance of further investigations and/or response action(s), to recover natural resource damages, and/or to exercise any summary abatement powers with respect to any person, including Respondent.

B. Except as otherwise provided in this Order, Respondent specifically reserve all rights and defenses under applicable law respecting any Departmental assertion of remedial liability and/or natural resource damages against Respondent, and further reserves all rights respecting the enforcement of this Order, including the rights to notice, to be heard, to appeal, and to any other due process. The existence of this Order or Respondent's compliance with it shall not be construed as an admission of liability, fault, wrongdoing, or breach of standard of care by Respondent, and shall not give rise to any presumption of law or finding of fact, or create any rights, or grant any cause of action, which shall inure to the benefit of any third party. Further, Respondent reserve such rights as it may have to seek and obtain contribution, indemnification, and/or any other form of recovery from its insurers and from other potentially responsible parties or their insurers for past or future response and/or cleanup costs or such other costs or damages arising from the contamination at the Site as may be provided by law, including but not limited to rights of contribution under section 113(f)(3)(B) of CERCLA, 42 U.S.C. § 9613(f)(3)(B).

VIII. Indemnification

Respondent shall indemnify and hold the Department, the State of New York, the Trustee of the State's natural resources, and their representatives and employees harmless for all claims, suits, actions, damages and costs resulting from the acts and/or omissions of Respondent, intentional, negligent, or otherwise, of every nature and description, arising out of or resulting from the compliance or attempted compliance with the provisions of this Order by Respondent or its employees, servants, agents, successors or assigns.

IX. Communications

A. All written communications required by this Order shall be transmitted by United States Postal Service, by electronic transmission including email or facsimile, by private courier service, or hand delivered as follows:

1. Communication from Respondent shall be sent to:

Attn: Paul Patel, P.E.
NYS Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, Albany, New York 12233-7014
appatel@gw.dec.state.ny.us

Note: One (1) hard copy of plans is required, as well as one (1) electronic copy.

with electronic copies to:

Attn: Benjamin Conlon, Esq.
NYS Department of Environmental Conservation
Office of General Counsel
625 Broadway, Albany, New York 12233-1500
bxconlon@gw.dec.state.ny.us

David A. Crosby, P.E.
NYS Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, Albany, New York 12233-7014
dacrosby@gw.dec.state.ny.us

Krista Anders (electronic copy only)
New York State Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza
Corning Tower Room 1787
Albany, NY 12237
kma06@health.state.ny.us

2. Communication to be made from the Department to Respondent shall be
sent to:

Mark R. Hendrickson
Chevron Environmental Management Company
Superfund & Specialty Portfolios Business Unit
4800 Fournace Place, Room E534C
Bellaire, Texas 77401
mhendrickson@chevron.com

J. Stephen Carow
Senior Counsel, Environmental & Safety Law Group
Chevron Law Department
Chevron Corporation
P.O. Box 4368, Houston, TX 77002

Tel. 713.372.9231 Fax 713.372.9171
e-mail: steve.carow@chevron.com

With copies to:

Nicholas M. Ward-Willis, Esq.
Keane & Beane, P.C.
445 Hamilton Avenue
15th Floor
White Plains, NY 10601
Nward-willis@kblaw.com

Chevron
PO Box 509
Beacon, NY 12508
Attn: Monica Heavey
khea@chevron.com

B. The Department and Respondent reserve the right to designate additional or different addressees for communication upon written notice to the other.

C. Each party shall notify the other within ninety (90) days after any change in the addresses in this Paragraph IX.

X. Public Notice

A. Within thirty (30) Days after the effective date of this Order, Respondent shall provide notice as required by 6 NYCRR 375-1.5(a). Within sixty (60) Days of such filing, Respondent shall provide the Department with a copy of such instrument certified by the recording officer to be a true and faithful copy.

B. If Respondent proposes to transfer by sale or lease the whole or any part of Respondent's interest in the Site, or becomes aware of such transfer, Respondent shall, not fewer than forty-five (45) days before the date of transfer, or within forty-five (45) days after becoming aware of such conveyance, notify the Department in writing of the identity of the transferee and of the nature and proposed or actual date of the conveyance, and shall notify the transferee in writing (with a copy to the Department) of the applicability of this Order. However, such obligation shall not extend to a conveyance by means of a corporate reorganization or merger or the granting of any rights under any mortgage, deed, trust, assignment, judgment, lien, pledge, security agreement, lease, or any other right accruing to a person not affiliated with Respondent to secure the repayment of money or the performance of a duty or obligation.

XI. Environmental Easement

A. If a Department-approved final report for the Site, or Operable Unit thereof, relies upon one or more institutional and/or engineering controls, Respondent shall submit to the

Department for approval an Environmental Easement to run with the land in favor of the State which complies with the requirements of ECL Article 71, Title 36, and 6 NYCRR 375-1.8(h)(2). Upon acceptance of Environmental Easement by the State, Respondent shall comply with the requirements of 6 NYCRR 375-1.8(h)(2).

B. If the Department-approved RI/FS or RFI/CMS Report for an operable unit provides for no action other than implementation of one or more institutional controls, Respondent shall cause an environmental easement to be recorded under the provisions of Subparagraph XI.A. If Respondent does not cause such environmental easement to be recorded in accordance with 6 NYCRR 375-1.8(h)(2), Respondent will not be entitled to the benefits conferred by 6 NYCRR 375-1.9 and 375-2.9.

XII. Dispute Resolution

In the event disputes arise under this Order, Respondent may, within thirty (30) Days after Respondent knew or should have known of the facts which are the basis of the dispute, initiate dispute resolution in accordance with the provisions of 6 NYCRR 375-1.5(b)(2). Nothing contained in this Order shall be construed to authorize Respondent to invoke dispute resolution with respect to any remedy selected by the Department or any element of such remedy, nor to impair any right of Respondent to seek judicial review of the Department's selection of any remedy.

XIII. Termination of Order

This Order will terminate upon the Department's written determination that Respondent has completed all phases of the Remedial and Closure Program (including Site Management), in which event the termination shall be effective on the Fifth Day after the date of the Department's approval of the final report relating to the final phase of the Remedial and Closure Program.

XIV. Standard Provisions

Respondent will further comply with the standard provisions which are attached and which constitute material and integral terms of this Order and are hereby incorporated into this document.

DATED:

Albany, New York
OCT 31, 2013

Commissioner Joseph Martens
New York State Department of Environmental
Conservation

By:



Robert Schick
Director
Division of Environmental Remediation

CONSENT BY RESPONDENT Chevron U.S.A. Inc.

Respondent hereby consents to the issuing and entering of this Order without further notice, waive their right to a hearing herein, and agree to be bound by the terms, conditions and provisions contained in this Order.

By (Signature): Brian J Kelly
Print Name: BRIAN J KELLY
Title: REAL PROPERTY OFFICER
Date: OCTOBER 29, 2013

ACKNOWLEDGMENT

STATE OF _____) ss:
COUNTY OF Plase)

On the _____ day of _____ in the year _____ before me personally came _____ to me known, who, being by me duly sworn, did depose and say that s/he resides in _____ that s/he is the _____ of _____, the limited liability company described in and which executed the above instrument; and that s/he signed his/her name thereto by authority of the member(s) of said limited liability company.

Notary Public
Signature and Office of individual taking acknowledgment

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

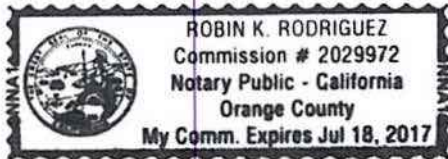
State of California

County of Orange

On October 29, 2013 before me, Robin K Rodriguez (Notary Public)

personally appeared Brian John Kelly

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Robin K Rodriguez

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Order on Consent

Document Date: October 29, 2013 Number of Pages: 19

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- ☐ Corporate Officer — Title(s): _____
- ☐ Individual
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

Signer's Name: _____

- ☐ Corporate Officer — Title(s): _____
- ☐ Individual
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

STANDARD PROVISIONS

Payment. Any penalty assessed pursuant to the terms and conditions of this Order shall be paid by submitting a certified or cashier's check or money order, payable to the Department of Environmental Conservation, to: Department of Environmental Conservation, Office of General Counsel, Attn: Benjamin Conlon Esq., 625 Broadway, 14th Floor, Albany, New York 12233-5550. Unpaid penalties imposed by this Order shall bear interest at the rate of 9 percent per annum for each day the penalty, or any portion thereof, remains unpaid. Payments received shall first be applied to accrued interest charges and then to the unpaid balance of the penalty.

Duration. This Order shall take effect when it is signed by the Commissioner of Environmental Conservation, or his designee, and shall expire when Respondent has fully complied with the requirements of this Order.

Access. For the purpose of monitoring or determining compliance with this Order, employees and agents of the Department shall be provided access to any facility, site, or records owned, operated, controlled or maintained by Respondent, in order to inspect and/or perform such tests as the Department may deem appropriate, to copy such records, or to perform any other lawful duty or responsibility.

Force Majeure. If Respondent cannot comply with a deadline or requirement of this Order, because of an act of God, war, strike, riot, catastrophe, or other condition which was not caused by the negligence or willful misconduct of Respondent and which could not have been avoided by the Respondent through the exercise of due care, Respondent shall apply in writing to the Department within a reasonable time after obtaining knowledge of such fact and request an extension or modification of the deadline or requirement.

Modifications. No change in this Order shall be made or become effective except as specifically set forth by written order of the Commissioner, being made either upon written application of Respondent, or upon the Commissioner's own findings after notice and opportunity to be heard has been given to Respondent. Respondent shall have the burden of proving entitlement to any modification requested pursuant to this Standard Provision or the "Force Majeure" provision, *supra*. Respondent's requests for modification shall not be unreasonably denied by the Department, which may impose such additional conditions upon Respondent as the Department deems appropriate. Notwithstanding the foregoing, if Respondent seeks to modify an approved Work Plan, a written request shall be made to the Department.

Permit Exemption. The Department may exempt Respondent from the requirement to obtain any state or local permit or other authorization for activities conducted pursuant to this Order as provided at 6 NYCRR 375-1.12(b), (c), and (d).

Other Rights. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating or in any way affecting (1) any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against anyone other than Respondent; (2) any right of the Department to enforce administratively or at law or in equity, the terms, provisions and conditions of this Order; (3) any right of the Department to bring any future action, either administrative or judicial, for natural resource damages, or for any other violations of the ECL, the rules and regulations promulgated thereunder, or conditions contained in orders or permits, if any, issued by the Department to Respondent; (4) the summary abatement powers of the Department, either at common law or as granted pursuant to statute or regulation.

Entire Agreement. This Order shall constitute the entire agreement of the Department and Respondent with respect to settlement of those violations specifically referenced herein.

Headings. The paragraph headings set forth in this Order are included for convenience of reference only and shall be disregarded in the construction and interpretation of any provisions of this Order.

Signature of Order. This Order may be executed for the convenience of the parties hereto, individually or in combination, in one or more counterparts, each of which shall be deemed to have the status of an executed original and all of which shall together constitute one and the same.

Binding Effect. The provisions, terms, and conditions of this Order shall be deemed to bind Respondent and Respondent's heirs, legal representatives, receivers, trustees in bankruptcy, successors and assigns.

Service. If either Respondent is represented by an attorney with respect to the execution of this Order, service of a duly executed copy of this Order upon Respondent's counsel by ordinary mail shall be deemed good and sufficient service.

Multiple Respondents. 1. If more than one Respondent is a signatory to this Order, use of the term "Respondent" in these Standard Provisions shall be deemed to refer to each Respondent identified in the Order unless the Order clearly identifies one of the Respondents.

2. If there are multiple parties signing this Order, unless the Order clearly identifies one of the Respondents, the term "Respondent" shall be read in the plural, the obligations of each such party under this Order are joint and several, and the insolvency of or failure by any Respondent to implement any obligations under this Order shall not affect the obligations of the remaining Respondent(s) under this Order.

EXHIBIT A – GENERAL SITE MAP

Exhibit B – Overall site plan showing all 4 OU's

Exhibit C - OU 1

Exhibit D – OU2

Exhibit E – OU3

Exhibit F – OU4

Exhibit G – Form Release letter

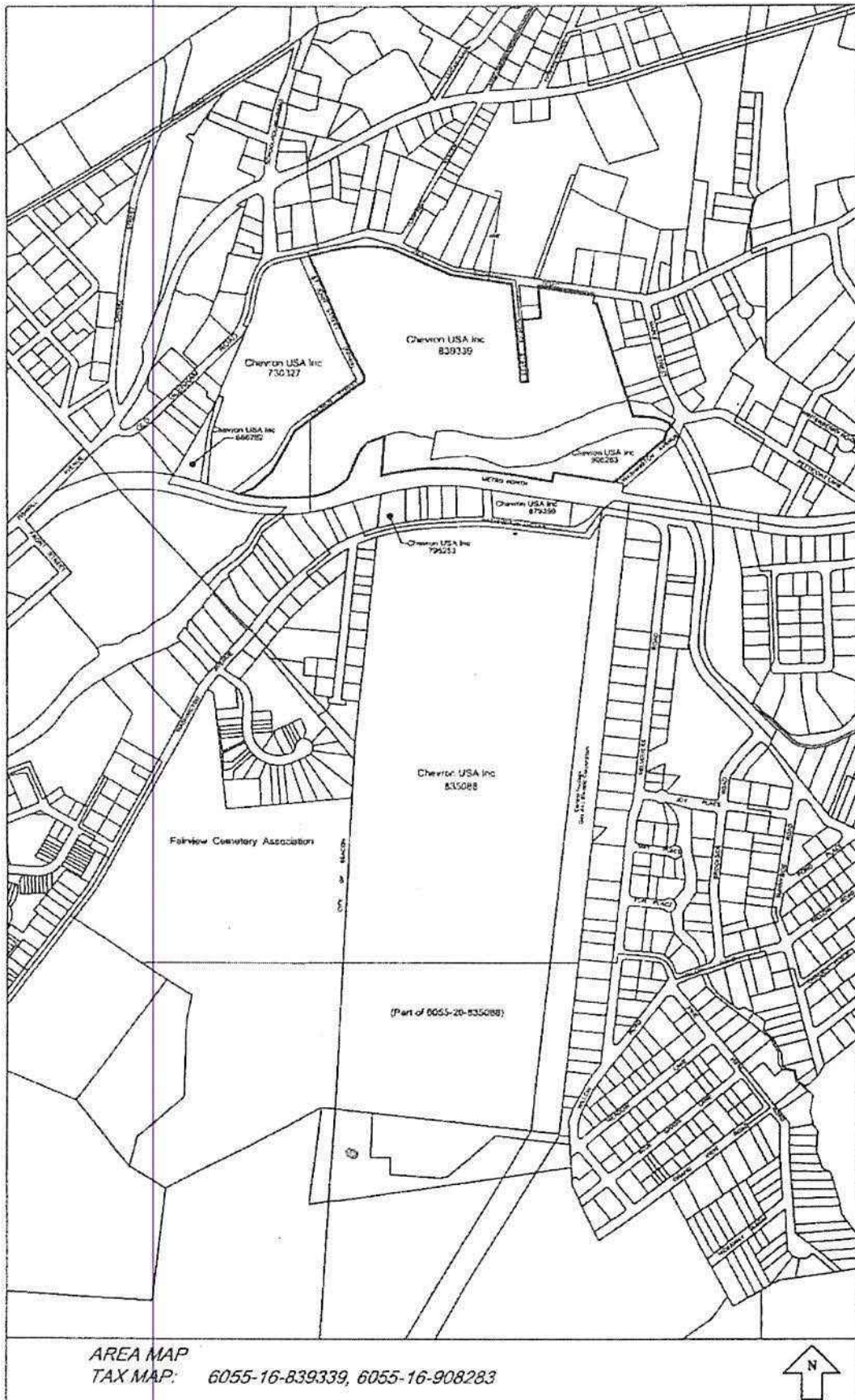
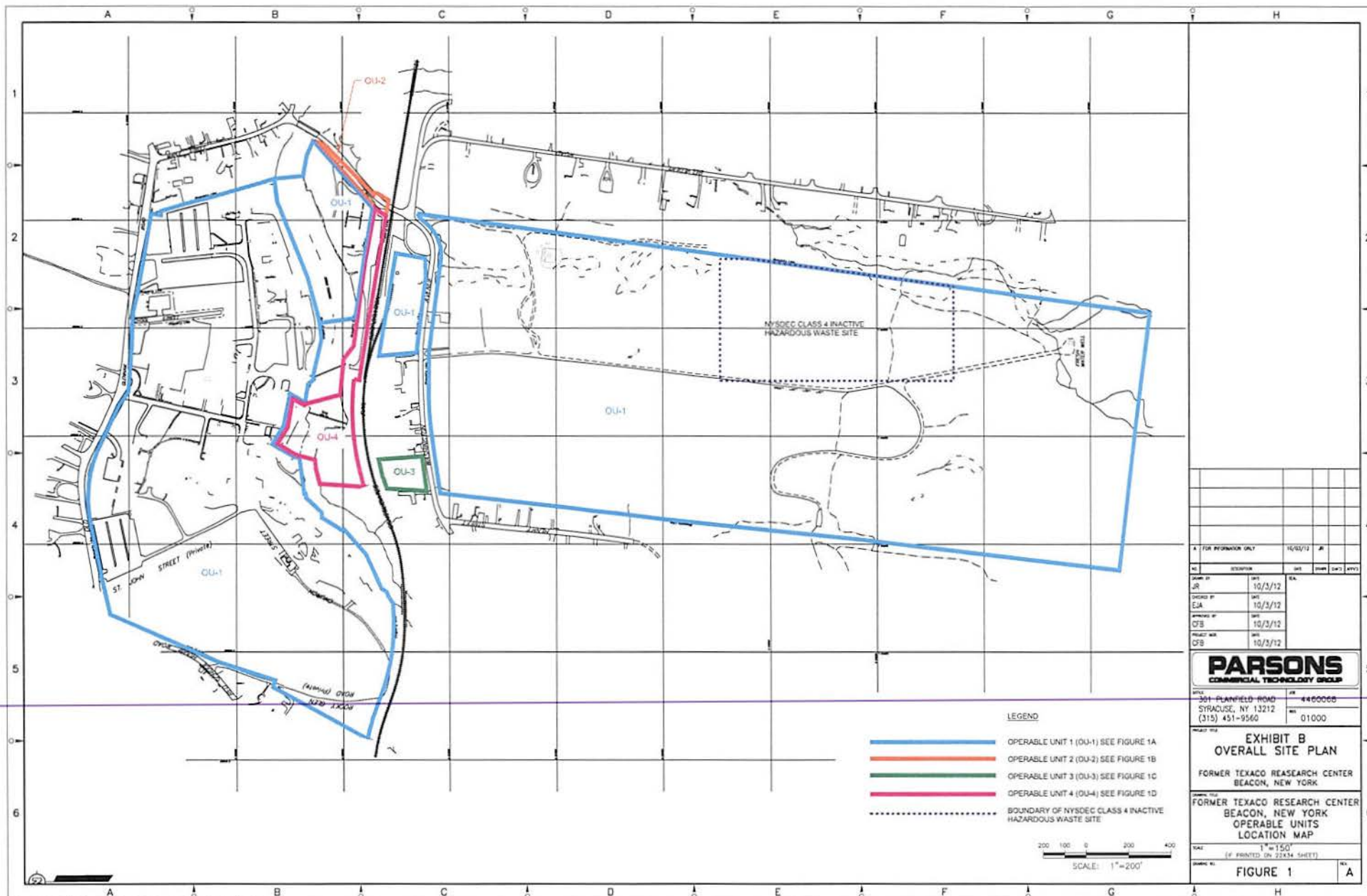
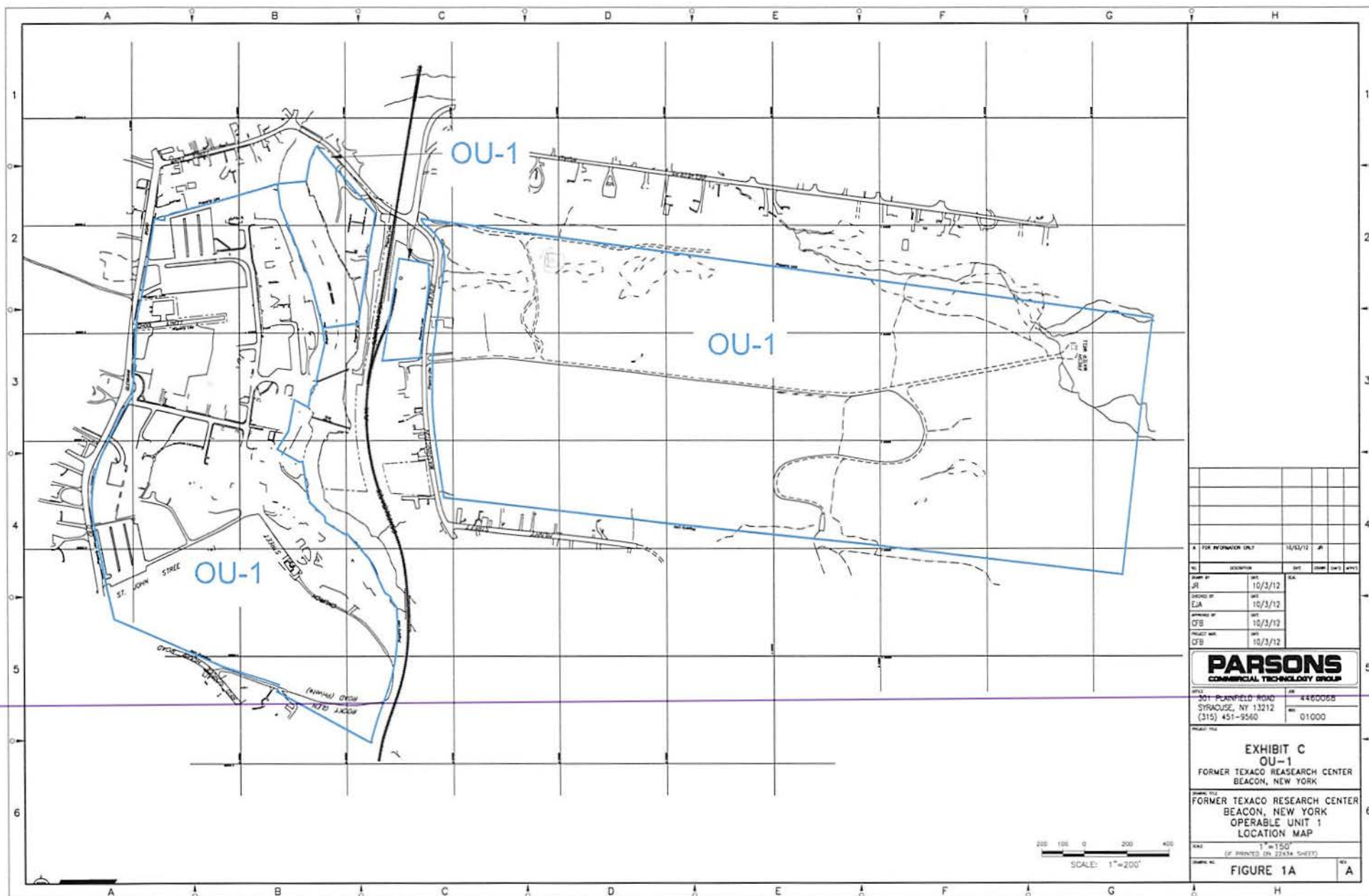


EXHIBIT "A"





FOR INFORMATION ONLY				
NO.	DESCRIPTION	DATE	STATUS	APPROVED
1	DRWN BY JR	10/3/12	SA	
2	CHKD BY EJA	10/3/12		
3	APPROVED BY CFB	10/3/12		
4	PROJECT MGR CFB	10/3/12		

PARSONS
COMMERCIAL TECHNOLOGY GROUP

301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-9560

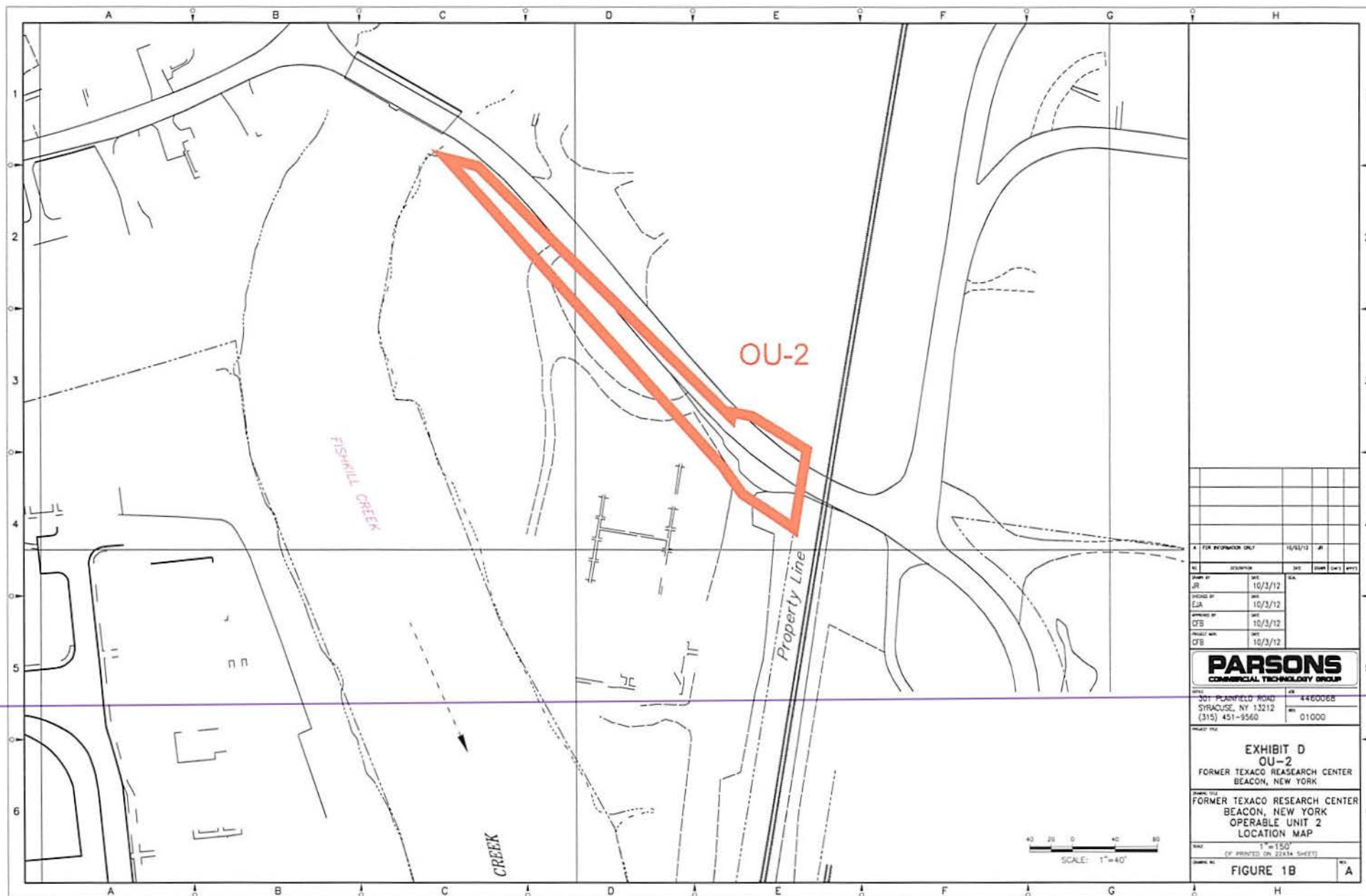
PROJECT NO. 8460068
REV. 01000

EXHIBIT C
OU-1
FORMER TEXACO RESEARCH CENTER
BEACON, NEW YORK

FORMER TEXACO RESEARCH CENTER
BEACON, NEW YORK
OPERABLE UNIT 1
LOCATION MAP

SCALE: 1"=150'
(IF PRINTED ON 22x34 SHEET)

FIGURE 1A



FOR INFORMATION ONLY				
NO.	DESCRIPTION	DATE	DATE	DATE
1	DRWN BY	JR	10/3/12	BA
2	CHKD BY	EJA	10/3/12	
3	APPROVED BY	CFS	10/3/12	
4	REVIEW BY	CFS	10/3/12	

PARSONS
COMMERCIAL TECHNOLOGY GROUP

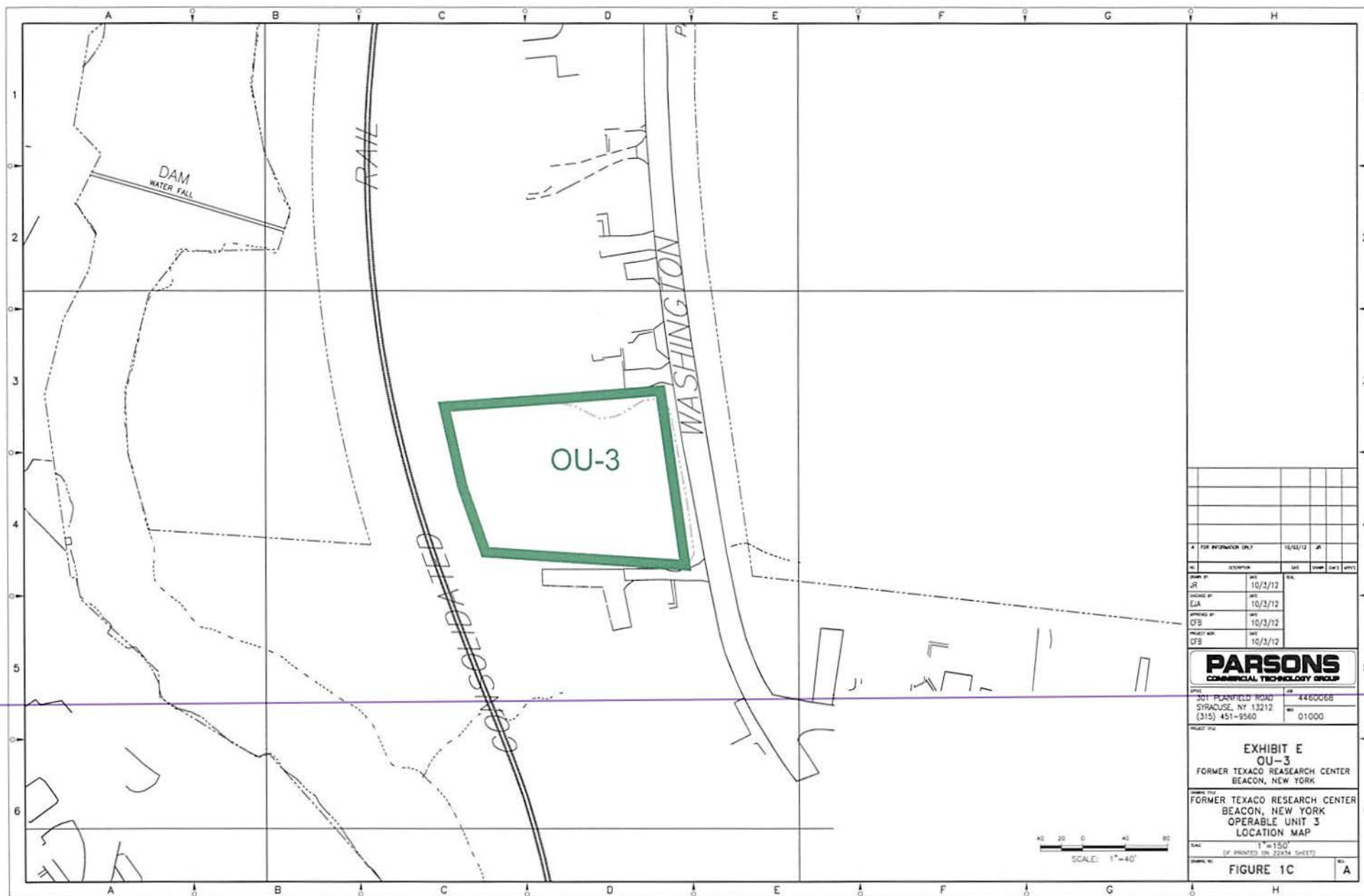
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-5560

EXHIBIT D
OU-2
FORMER TEXACO RESEARCH CENTER
BEACON, NEW YORK

FORMER TEXACO RESEARCH CENTER
BEACON, NEW YORK
OPERABLE UNIT 2
LOCATION MAP

SCALE: 1" = 40'
(IF PRINTED ON 22x34 SHEET)

FIGURE 1B





Joe Martens
Commissioner

EXHIBIT "G"

Form Assignable Release and Covenant Not To Sue

Addressee

Unless otherwise specified in this letter, all terms used in this letter shall have the meaning assigned to them under the terms of the Consent Order (Index No. 03-1112-08-12, the "Order") entered into between the New York State Department of Environmental Conservation (the "Department") and Chevron U.S.A. Inc. ("Respondent").

The Department is pleased to report that the Department has approved the Interim Final Engineering Report for OU __, covering the remedial, corrective, and closure measures taken at address in the County of Dutchess, having the Dutchess County Tax Map Identifier number ____, as more particularly described on Appendix "A" attached hereto (the "Property").

The Department, therefore, effective the date of this notification hereby releases, covenants not to sue, and shall forbear from asserting or bringing any claim, action, proceeding, or suit against Respondent and Respondent's sublessees and Respondent's successors and assigns (inclusive of all who hereinafter receive an interest in any part of the Property) and their respective secured creditors, for the further Investigation and Remediation of the Property based upon the Release or threatened Release of any contamination at the property, provided that (a) timely payments of the amounts specified in Paragraph VI of the Order continue to be or have been made to the Department, (b) appropriate notices and environmental easements (if required) have been recorded in accordance with Paragraphs X and XI of the Order, (c) the groundwater underlying said premises shall not be used without treatment rendering it safe for drinking unless permission is obtained from NYSDEC or other entity which replaces NYSDEC, (d) the Respondent and/or Respondent's lessees, sublessees, successors, or assigns continue to or promptly implement the Department-approved Site Management Plan (SMP) or Post-Closure Plan (PCP), if any, and (e) the Respondent timely and appropriately completes the remaining investigation and remediation of the site and includes this OU in the Final SMP and Final Engineering Report for the entire site

Nonetheless, the Department hereby reserves all of its rights concerning, and such release, covenant not to sue, and forbearance shall not extend to natural resource damages nor to any further investigation or Remediation the Department deems necessary:

- due to environmental conditions related to the Property that were unknown to the Department at the time of its approval of the Interim Final Engineering Report which demonstrate that Property's conditions are not sufficiently protective of human health and the environment for the contemplated use for the Property;

- due to reliable information received, in whole or in part, after the Department's approval of the Interim Final Engineering Report, which demonstrates that the activities carried out in accordance with any remedial or corrective measures are not sufficiently protective of human health and the environment for the contemplated use of the Property;
- due to Respondent's failure to implement the Order to the Department's satisfaction; provided, however, that any such reservation of rights by the Department and any such determination by the Department not to extend the release, covenant not to sue, and forbearance, as set forth in Subparagraph III.G.2 of the Order, shall be upon notice to Respondent and shall be conditioned upon the Department's granting to Respondent 30 days to investigate and cure any failure to implement the Order that is alleged by the Department, but this notice and opportunity to cure shall not be available to the Respondent in the event of fraud; or
- due to fraud committed, or mistake made, by Respondent in demonstrating that the OU specific cleanup levels identified in, or to be identified in accordance with, the Interim Final Engineering Report were reached.

Additionally, the Department hereby reserves all of its respective rights concerning, and any such release, covenant not to sue, and forbearance shall not extend to:

- Respondent if Respondent causes a, or suffers the, Release or threat of Release, at the Property of any hazardous substance (as that term is defined at 42 USC 9601[14]) or petroleum (as that term is defined in Navigation Law § 172[15]), other than existing contamination, or if Respondent causes a, or suffers the use of the Property to change from the contemplated use to one requiring a lower level of residual contamination before that use can be implemented with sufficient protection of human health and the environment; nor to
- any of Respondent's lessees, sublessees, successors, or assigns who causes a, or suffers the, Release or threat of Release at the Property of any hazardous substance (as that term is defined at 42 USC 9601 [14]) or petroleum (as that term is defined in Navigation Law § 172(15)), other than existing contamination, or anyone who causes a, or suffers the use of the Property to, change from the contemplated use to one requiring a lower level of residual contamination before that use can be implemented with sufficient protection of human health and the environment; or who is otherwise a party responsible under law for the remediation of the existing contamination independent of any obligation that party may have respecting same established resulting solely from the Order's execution.

Notwithstanding the above, however, with respect to any claim or cause of action asserted by the Department, the one seeking the benefit of this release, covenant not to sue, and forbearance shall bear the burden of proving that the claim or cause of action, or any part thereof, is attributable solely to existing contamination.

Notwithstanding any other provision in this release, covenant not to sue, and forbearance,

- if with respect to the Property there exists or may exist a claim of any kind or nature on the part of the New York State Environmental Protection and Spill Compensation Fund against any party, nothing in this release shall be construed, or deemed, to preclude the

State of New York from recovering such claim.

- except as provided in Subparagraph III.G of the Order and in this letter, nothing contained in the Order or in this letter shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's rights (including, but not limited to, nor exemplified by, the right to recover natural resources damages) with respect to any party, including Respondent.
- nothing contained in this letter shall prejudice any rights of the Department to take any investigatory action or remediation or corrective measures it may deem necessary if Respondent fails to comply with the Order or if contamination other than existing contamination is encountered at the Site.
- nothing contained in this letter shall be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers.
- nothing contained in this letter shall be construed to affect the Department's right to terminate the Order at any time during its implementation if Respondent fails to comply substantially with the Order's terms and conditions.

In conclusion, the Department is pleased to be part of this effort to return the Property to productive use of benefit to the entire community.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
CONSERVATION

By: _____

cc:

Appendix B

Analytical Data

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP S1 Residential	OU1DSB01 5/18/2017 170518 0-0.17 REG	OU1DSB02 5/18/2017 170518 0-0.17 REG	OU1DSB03 5/19/2017 170519 0-0.17 REG	OU1DSB04 5/19/2017 170519 0-0.17 REG	OU1DSB05 5/19/2017 170519 0-0.17 REG	OU1DSB06 5/19/2017 170519 0-0.17 REG	OU1DSB07 5/22/2017 170522 0-0.17 REG	OU1DSB08 5/22/2017 170522 0-0.17 REG	OU1DSB09 5/22/2017 170522 0-0.17 REG	OU1DSB10 5/22/2017 170522 0-0.17 REG	OU1DSB11 5/22/2017 170522 0-0.17 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	< 0.59	< 0.64	< 0.15	< 0.22	< 0.16	< 0.15	< 0.18	< 0.14	< 0.12	< 0.13	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	< 0.39	< 0.42	< 0.1	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	< 1.8	< 1.9	< 0.46	< 0.67	< 0.48	< 0.46	< 0.53	< 0.42	< 0.35	< 0.38	< 0.36
2,4-Dinitrotoluene	121-14-2	--	--	--	--	< 0.39	< 0.42	< 0.1	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	--	< 0.039	< 0.043	< 0.01	< 0.015	< 0.011	< 0.01	< 0.012	< 0.009	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	< 0.02	0.026 J	0.03	0.18	0.023 J	0.072	0.065	0.029	0.008 J	0.011 J	0.005 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	0.031 J	< 0.024	< 0.019	< 0.021	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	< 0.59	< 0.64	< 0.15	< 0.22	< 0.16	< 0.15	< 0.18	< 0.14	< 0.12	< 0.13	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	< 0.39	< 0.42	< 0.1	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	< 0.99	< 1.1	< 0.26	< 0.37	< 0.27	< 0.26	< 0.29	< 0.24	< 0.19	< 0.21	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
4-Chloroaniline	106-47-8	0.22	--	--	100	< 0.2	< 0.21	< 0.051	< 0.075	< 0.053	< 0.052	< 0.059	< 0.047	< 0.039	< 0.042	< 0.04
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	< 0.099	< 0.11	< 0.026	0.17	< 0.027	0.056	0.071	< 0.024	< 0.019	< 0.021	< 0.02
4-Nitroaniline	100-01-6	--	--	--	--	< 0.39	< 0.42	< 0.1	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
4-Nitrophenol	100-02-7	0.1	7	--	--	< 0.99	< 1.1	< 0.26	< 0.37	< 0.27	< 0.26	< 0.29	< 0.24	< 0.19	< 0.21	< 0.2
Acenaphthene	83-32-9	98	20	20	100	< 0.02	0.045 J	0.052	0.054	0.03	0.13	0.009 J	0.062	< 0.004	0.006 J	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	0.026 J	0.11	0.088	0.11	0.088	0.21	0.088	0.063	0.02 J	0.018 J	0.014 J
Acetophenone	98-86-2	--	--	--	--	< 0.099	< 0.11	< 0.026	0.057 J	< 0.027	0.038 J	0.042 J	< 0.024	< 0.019	< 0.021	< 0.020
Anthracene	120-12-7	1000	--	100	100	0.041 J	0.13	0.2	0.56	0.11	0.4	0.12	0.19	0.008 J	0.025	0.01 J
Atrazine	1912-24-9	--	--	--	--	< 0.2	< 0.21	< 0.051	< 0.075	< 0.053	< 0.052	< 0.059	< 0.047	< 0.039	< 0.042	< 0.040
Benzaldehyde	100-52-7	--	--	--	--	< 0.39	< 0.42	< 0.1	0.21 J	< 0.11	0.25 J	0.14 J	0.15 J	0.29	0.096 J	< 0.079
Benzo(a)anthracene	56-55-3	1	--	1	1	0.12	0.36	0.63	1.3	0.34	1	0.13	0.38	0.025	0.14	0.035
Benzo(a)pyrene	50-32-8	22	2.6	1	1	0.14	0.36	0.65	1	0.36	0.95	0.12	0.31	0.029	0.16	0.039
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	0.19	0.51	0.78	1.9	0.54	1.2	0.32	0.41	0.036	0.22	0.054
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	0.13	0.28	0.46	0.84	0.27	0.69	0.13	0.19	0.021	0.1	0.031
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	0.091 J	0.18	0.37	0.8	0.18	0.53	0.1	0.15	0.018 J	0.097	0.026
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	< 0.39	< 0.42	0.13 J	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
Butylbenzylphthalate	85-68-7	122	--	--	100	< 0.39	< 0.42	< 0.1	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
Caprolactam	105-60-2	--	--	--	--	< 0.2	< 0.21	< 0.051	< 0.075	< 0.053	< 0.052	< 0.059	< 0.047	< 0.039	< 0.042	< 0.040
Carbazole	86-74-8	--	--	--	--	< 0.099	< 0.11	0.079	0.11	0.059	0.18	0.078	0.06	< 0.019	< 0.021	< 0.02
Chrysene	218-01-9	1	--	1	1	0.18	0.42	0.72	1.2	0.42	1.1					

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	OU1DSB01 5/18/2017 170518 0-0.17 REG	OU1DSB02 5/18/2017 170518 0-0.17 REG	OU1DSB03 5/19/2017 170519 0-0.17 REG	OU1DSB04 5/19/2017 170519 0-0.17 REG	OU1DSB05 5/19/2017 170519 0-0.17 REG	OU1DSB06 5/19/2017 170519 0-0.17 REG	OU1DSB07 5/22/2017 170522 0-0.17 REG	OU1DSB08 5/22/2017 170522 0-0.17 REG	OU1DSB09 5/22/2017 170522 0-0.17 REG	OU1DSB10 5/22/2017 170522 0-0.17 REG	OU1DSB11 5/22/2017 170522 0-0.17 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	< 0.0046	--	--	--	--	--	--	--	--	< 0.0042
Aroclor 1221	11104-28-2	--	--	--	--	--	< 0.0059	--	--	--	--	--	--	--	--	< 0.0054
Aroclor 1232	11141-16-5	--	--	--	--	--	< 0.01	--	--	--	--	--	--	--	--	< 0.0094
Aroclor 1242	53469-21-9	--	--	--	--	--	< 0.0042	--	--	--	--	--	--	--	--	< 0.0039
Aroclor 1248	12672-29-6	--	--	--	--	--	< 0.0042	--	--	--	--	--	--	--	--	< 0.0039
Aroclor 1254	11097-69-1	--	--	--	--	--	< 0.0042	--	--	--	--	--	--	--	--	< 0.0039
Aroclor 1260	11096-82-5	--	--	--	--	--	< 0.0063	--	--	--	--	--	--	--	--	< 0.0058
Aroclor 1262	37324-23-5	--	--	--	--	--	< 0.0042	--	--	--	--	--	--	--	--	< 0.0039
Aroclor 1268	11100-14-4	--	--	--	--	--	< 0.0042	--	--	--	--	--	--	--	--	< 0.0039
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	--	< 0.00042	--	--	--	--	--	--	--	--	< 0.00055 V
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	--	0.002 J	--	--	--	--	--	--	--	--	0.0026 P
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	--	0.0009 JP	--	--	--	--	--	--	--	--	0.0025
Aldrin	309-00-2	0.19	0.14	0.005	0.019	--	< 0.00022	--	--	--	--	--	--	--	--	< 0.0002
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	--	< 0.00022	--	--	--	--	--	--	--	--	< 0.0002
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	--	< 0.00022	--	--	--	--	--	--	--	--	< 0.0002
beta BHC	319-85-7	0.09	0.6	0.036	0.072	--	< 0.00038	--	--	--	--	--	--	--	--	< 0.00036
delta BHC	319-86-8	0.25	0.04	0.04	100	--	< 0.00057	--	--	--	--	--	--	--	--	< 0.00053
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	--	0.0011 JP	--	--	--	--	--	--	--	--	< 0.00039
Endosulfan I	959-98-8	102	--	2.4	4.8	--	< 0.00028	--	--	--	--	--	--	--	--	< 0.00026
Endosulfan II	33213-65-9	102	--	2.4	4.8	--	< 0.00042	--	--	--	--	--	--	--	--	< 0.00039
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	--	< 0.00042	--	--	--	--	--	--	--	--	< 0.00039
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	--	< 0.00042	--	--	--	--	--	--	--	--	< 0.00039
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	0.00045 JP	--	--	--	--	--	--	--	--	0.00044 J
ENDRIN KETONE	53494-70-5	--	--	--	--	--	< 0.00076	--	--	--	--	--	--	--	--	< 0.00071
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	--	< 0.00046 V	--	--	--	--	--	--	--	--	< 0.0002
gamma Chlordane	5103-74-2	14	--	--	0.54	--	0.00025 JP	--	--	--	--	--	--	--	--	< 0.0002
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	--	< 0.00022	--	--	--	--	--	--	--	--	0.00027 JP
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	< 0.00022	--	--	--	--	--	--	--	--	< 0.0002
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	< 0.0022	--	--	--	--	--	--	--	--	< 0.002
TOXAPHENE	8001-35-2	--	--	--	--	--	< 0.018	--	--	--	--	--	--	--	--	< 0.017
Metals																
Aluminum	7429-90-5	--	10000	--	--	15,300	18,800	13,500	14,600	21,500	16,200	15,400	14,900	14,300	14,100	13,800
Antimony	7440-36-0	--	12	--	--	0.224 J	0.256 J	0.507	1.14	0.877	0.328 J	0.242 J	0.275 J	0.275 J	0.295 J	0.251 J
Arsenic	7440-38-2	16	13	13	16	7.34	8.92	78.2	58.2	96.4	28.5	6.63	45.4	5.99	20.6	13.2
Barium	7440-39-3	820	433	350	350	52.6	69.9	53.3	100	78.8	61.1	94.5	56.4	48.3	48	46.9
Beryllium	7440-41-7	47	10	7.2	14	0.473	0.597	0.538	0.606	0.721	0.956	0.621	0.615	0.555	0.691	0.564
Cadmium	7440-43-9	7.50	4	2.5	2.5	0.144 J	0.164 J	0.33	0.259 J	0.273	0.433	0.233 J	0.456	0.139 J	0.33	0.254
Calcium	7440-70-2	--	10000	--	--	6,810	4,710	47,500	6,630	4,590	13,300	3,330	4,500	1,060	3,130	1,680
Chromium	7440-47-3	--	--	30	36	22.4	17.3	16	26.3	54.6	17.5	15.9	15	14.9	14.9	14.8
Cobalt	7440-48-4	--	20	--	30	10	11.6	9.44	9.48	15.3	12.6	12.8	9.41	10.1	9.84	10.2
Copper	7440-50-8	1720	50	50	270	26	30.2	29.6	39.8	45.1	24.1	34	51.6	24.3	23.4	23.8
Iron	7439-89-6	--	--	--	2000	27,000	31,400	25,200	26,100	40,000	34,000	25,400	22,600	24,100	23,900	24,100
Lead	7439-92-1	450	63	63	400	25.8	42.8	80.9	86.7	65.6	63.1	36.9	65.1	17.9	31.7	21.9
Magnesium	7439-95-4	--	--	--	--	7,410	7,210	35,200	4,950	9,070	15,700	5,340	6,010	4,730	5,330	4,670
Manganese	7439-96-5	2000	1600	1600	2000	722	778	626	784	1,130	768	727	613	580	593	617
Nickel	7440-02-0	130	30	30	140	21.7	25.7	53.6	21.4	33.3	32.9	26.2	19.8	21.2	19.4	21.6
Potassium	7440-09-7	--	--	--	--	1,530	2,130	1,310	1,510	2,110	1,970	2,590	1,520	1,490	1,670	1,690
Selenium	7782-49-2	4	3.9	3.9	36	0.279 J	0.411 J	0.354 J	0.63 J	0.489 J	0.276 J	0.242 J	0.294 J	0.230 J	0.229 J	0.220 J
Silver	7440-22-4	8.3	2	2	36	0.0598 J	0.0682 J	0.0691 J	0.313 J	0.0783 J	0.0664 J	0.246 J	0.0896 J	0.0807 J	0.0495 J	0.0413 J
Sodium	7440-23-5	--	--	--	--	87.3	88.3	125	66.1 J	389	64.7 J	71.5 J	49.5 J	40.6 J	50.0 J	41.4 J
Thallium	7440-28-0	--	5	--	--	0.0992 J	0.165 J	0.107 J	0.134 J	0.124 J	0.167 J	0.109 J	0.114 J	0.0862 J	0.0901 J	0.0830 J
Vanadium	7440-62-2	--	39	--	100	22.2	31.2	237	27.7	30.8	36	21.5	26.6	23	22.8	23.2
Zinc	7440-66-6	2480	109	109	2200	82	92.4	86.1	113	148	165	125	96.7	78.3	82.2	80.1
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.0953 J	0.112 J	0.326	0.466	0.123 J	0.316	0.592	0.427	0.0572 J	0.573	0.219

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and evident interference.
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB01 5/18/2017 OU1DSB01-S-0.17- 170518 0.17-0.5 REG	OU1DSB01 5/18/2017 OU1DSB01-S-0.50- 170518 0.5-1 REG	OU1DSB01 5/18/2017 OU1DSB01-S-1.00- 170518 1-2 REG	OU1DSB02 5/18/2017 OU1DSB02-S-0.17- 170518 0.17-0.5 REG	OU1DSB02 5/18/2017 OU1DSB02-S-0.50- 170518 0.5-1 REG	OU1DSB02 5/18/2017 OU1DSB02-S-1.00- 170518 1-2 REG	OU1DSB02 5/18/2017 OU1DSB02-SD-1.00- 170518 1-2 FD	OU1DSB03 5/19/2017 OU1DSB03-S-0.17- 170519 0.17-0.5 REG	OU1DSB03 5/19/2017 OU1DSB03-S-0.50- 170519 0.5-1 REG	OU1DSB03 5/19/2017 OU1DSB03-S-1.00- 170519 1-2 REG	OU1DSB04 5/19/2017 OU1DSB04-S-0.17- 170519 0.17-0.5 REG	OU1DSB04 5/19/2017 OU1DSB04-S-0.50- 170519 0.5-1 REG	
Volatile Organic Compounds																	
1,1 Dichloroethene	75-35-4	0.33	0.33	100	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	35	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	100	--	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.15	--	--
1,1-Dichloroethane	75-34-3	0.27	0.27	19	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,2,3-Trichlorobenzene	87-61-6	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.076	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.076	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.15	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	1.1	100	--	--	--	--	--	--	--	--	--	0.007	< 0.076	--	--
1,2-Dichloroethane	107-06-2	0.02	0.02	2.3	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,2-Dichloropropane	78-87-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
1,3-Dichlorobenzene	541-73-1	2.4	2.4	17	--	--	--	--	--	--	--	--	--	--	< 0.076	--	--
1,4-Dichlorobenzene	106-46-7	1.8	1.8	9.8	--	--	--	--	--	--	--	--	--	0.003 J	< 0.076	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	0.12	100	--	--	--	--	--	--	--	--	0.008 J	0.011 J	< 0.3	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.004	< 0.23	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.004	< 0.23	--	--
Acetone	67-64-1	0.05	0.05	100	--	--	--	--	--	--	--	--	0.11	0.11	< 0.53	--	--
Benzene	71-43-2	0.06	0.06	2.9	--	--	--	--	--	--	--	--	0.002 J	0.003 J	< 0.038	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.15	--	--
Carbon disulfide	75-15-0	2.7	--	100	--	--	--	--	--	--	--	--	0.009	0.007	< 0.076	--	--
Carbon Tetrachloride	56-23-5	0.76	0.76	1.4	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Chlorobenzene	108-90-7	1.1	1.1	100	--	--	--	--	--	--	--	--	< 0.001	0.004 J	< 0.076	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.15	--	--
Chloroform	67-66-3	0.37	0.37	10	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.15	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	59	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Dibromochloromethane	124-48-1	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.15	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Ethylbenzene	100-41-4	1	1	30	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Isopropylbenzene	98-82-8	2.3	--	100	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	< 0.001	0.003 J	< 0.076	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.003	0.17 J	--	--
Methyl-t-butyl ether	1634-04-4	0.93	0.93	62	--	--	--	--	--	--	--	--	< 0.0006	< 0.0006	< 0.038	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	0.05	51	--	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.15	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Styrene	100-42-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	0.11 J	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	< 0.024	< 0.025	< 1.5	--	--
Tetrachloroethene	127-18-4	1.3	1.3	5.5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Toluene	108-88-3	0.7	0.7	100	--	--	--	--	--	--	--	--	0.001 J	0.007	< 0.076	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	0.47	10	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.15	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	0.02	0.21	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.076	--	--
Xylene (total)	1330-20-7	1.60	0.26	100	--	--	--	--	--	--	--	--	< 0.001	0.003 J	< 0.076	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB01 5/18/2017 OU1DSB01-S-0.17- 170518 0.17-0.5 REG	OU1DSB01 5/18/2017 OU1DSB01-S-0.50- 170518 0.17-0.5 REG	OU1DSB01 5/18/2017 OU1DSB01-S-1.00- 170518 1-2 REG	OU1DSB02 5/18/2017 OU1DSB02-S-0.17- 170518 0.17-0.5 REG	OU1DSB02 5/18/2017 OU1DSB02-S-0.50- 170518 0.5-1 REG	OU1DSB02 5/18/2017 OU1DSB02-S-1.00- 170518 1-2 REG	OU1DSB02 5/18/2017 OU1DSB02-SD-1.00- 170518 1-2 FD	OU1DSB03 5/19/2017 OU1DSB03-S-0.17- 170519 0.17-0.5 REG	OU1DSB03 5/19/2017 OU1DSB03-S-0.50- 170519 0.5-1 REG	OU1DSB03 5/19/2017 OU1DSB03-S-1.00- 170519 1-2 REG	OU1DSB04 5/19/2017 OU1DSB04-S-0.17- 170519 0.17-0.5 REG	OU1DSB04 5/19/2017 OU1DSB04-S-0.50- 170519 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.62	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.13	< 0.12	< 0.12	< 0.15	< 0.11
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	0.033 J	0.025 J
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 1.8	< 0.34	< 0.34	< 0.36	< 0.34	< 0.33	< 0.34	< 0.39	< 0.36	< 0.37	< 0.46	< 0.34
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
2-Chloronaphthalene	91-58-7	--	--	--	< 0.041	< 0.008	< 0.007	< 0.008	< 0.008	< 0.007	< 0.007	< 0.009	< 0.008	< 0.008	< 0.01	< 0.007
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	0.036 J	0.019	0.009 J	0.023	0.023	0.02	0.046	0.039	0.045	3.3	0.2	0.15
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.62	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.13	< 0.12	< 0.12	< 0.15	< 0.11
3-Nitroaniline	99-09-2	0.5	--	--	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 1	< 0.19	< 0.19	< 0.2	< 0.19	< 0.18	< 0.19	< 0.22	< 0.2	< 0.21	< 0.26	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
4-Chloroaniline	106-47-8	0.22	--	100	< 0.21	< 0.038	< 0.037	< 0.04	< 0.038	< 0.037	< 0.037	< 0.043	< 0.04	< 0.042	< 0.051	< 0.037
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	0.061	0.048
4-Nitroaniline	100-01-6	--	--	--	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
4-Nitrophenol	100-02-7	0.1	--	--	< 1	< 0.19	< 0.19	< 0.2	< 0.19	< 0.18	< 0.19	< 0.22	< 0.2	< 0.21	< 0.26	< 0.19
Acenaphthene	83-32-9	98	20	100	< 0.021	0.009 J	< 0.004	0.022	0.025	0.016 J	0.024	0.074	0.025	0.58	0.073	0.054
Acenaphthylene	208-96-8	107	100	100	0.027 J	0.025	0.011 J	0.12	0.15	0.13	0.29	0.16	0.15	2.6	1	1.1
Acetophenone	98-86-2	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	0.051 J	0.035 J
Anthracene	120-12-7	1000	100	100	0.028 J	0.037	0.013 J	0.095	0.13	0.097	0.2	0.25	0.16	2.5	0.98	1
Atrazine	1912-24-9	--	--	--	< 0.21	< 0.038	< 0.037	< 0.04	< 0.038	< 0.037	< 0.037	< 0.043	< 0.04	< 0.042	< 0.051	< 0.037
Benzaldehyde	100-52-7	--	--	--	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	0.14 J	0.081 J
Benzo(a)anthracene	56-55-3	1	1	1	0.086 J	0.11	0.029	0.27	0.44	0.33	0.39	0.86	0.44	3	2.3	2.1
Benzo(a)pyrene	50-32-8	22	1	1	0.1 J	0.11	0.034	0.27	0.44	0.36	0.38	0.97	0.48	2.4	1.8	1.8
Benzo(b)fluoranthene	205-99-2	1.70	1	1	0.15	0.15	0.044	0.38	0.53	0.48	0.41	1.2	0.58	2	3.5	3.3
Benzo(g,h,i)perylene	191-24-2	1000	100	100	0.12	0.08	0.031	0.23	0.38	0.3	0.35	0.76	0.42	1.7	1.3	1.4
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	0.071 J	0.051	0.025	0.12	0.24	0.15	0.15	0.54	0.28	0.95	1.1	1.6
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	<											

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB01 5/18/2017 OU1DSB01-S-0.17- 170518 0.17-0.5 REG	OU1DSB01 5/18/2017 OU1DSB01-S-0.50- 170518 0.5-1 REG	OU1DSB01 5/18/2017 OU1DSB01-S-1.00- 170518 1-2 REG	OU1DSB02 5/18/2017 OU1DSB02-S-0.17- 170518 0.17-0.5 REG	OU1DSB02 5/18/2017 OU1DSB02-S-0.50- 170518 0.5-1 REG	OU1DSB02 5/18/2017 OU1DSB02-S-1.00- 170518 1-2 REG	OU1DSB02 5/18/2017 OU1DSB02-SD-1.00- 170518 1-2 FD	OU1DSB03 5/19/2017 OU1DSB03-S-0.17- 170519 0.17-0.5 REG	OU1DSB03 5/19/2017 OU1DSB03-S-0.50- 170519 0.5-1 REG	OU1DSB03 5/19/2017 OU1DSB03-S-1.00- 170519 1-2 REG	OU1DSB04 5/19/2017 OU1DSB04-S-0.17- 170519 0.17-0.5 REG	OU1DSB04 5/19/2017 OU1DSB04-S-0.50- 170519 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	< 0.0043	< 0.0041	< 0.004	< 0.004	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	< 0.0055	< 0.0052	< 0.0051	< 0.0051	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	< 0.0096	< 0.0091	< 0.0088	< 0.0089	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	< 0.004	< 0.0038	< 0.0036	< 0.0037	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	< 0.004	< 0.0038	< 0.0036	< 0.0037	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	< 0.004	< 0.0038	< 0.0036	< 0.0037	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	< 0.0059	< 0.0056	< 0.0054	< 0.0054	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	< 0.004	< 0.0038	< 0.0036	< 0.0037	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	< 0.004	< 0.0038	< 0.0036	< 0.0037	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	2.6	--	--	--	< 0.0036 V	< 0.00038	< 0.00036	< 0.00037	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	1.8	--	--	--	0.003	0.003	0.0021	0.0021	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	1.7	--	--	--	0.0079	0.007	0.0079	0.0078	--	--	--	--	--
Aldrin	309-00-2	0.19	0.005	0.019	--	--	--	< 0.0002	< 0.00019	< 0.00019	< 0.00019	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.02	0.097	--	--	--	< 0.0002	< 0.00019	< 0.00019	< 0.00019	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	0.094	0.91	--	--	--	< 0.0002	< 0.00019	< 0.00019	< 0.00019	--	--	--	--	--
beta BHC	319-85-7	0.09	0.036	0.072	--	--	--	< 0.00036	< 0.00034	< 0.00033	< 0.00034	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	100	--	--	--	0.00071 J	< 0.00051	< 0.00049	< 0.00051	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.005	0.039	--	--	--	< 0.001 V	< 0.00038	< 0.0004 V	< 0.00037	--	--	--	--	--
Endosulfan I	959-98-8	102	2.4	4.8	--	--	--	< 0.00026	< 0.00025	< 0.00024	< 0.00025	--	--	--	--	--
Endosulfan II	33213-65-9	102	2.4	4.8	--	--	--	< 0.00039	< 0.0004	< 0.00036	< 0.0005 V	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	2.4	4.8	--	--	--	< 0.00039	< 0.00038	< 0.00053 V	< 0.00037	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.014	2.2	--	--	--	< 0.00039	< 0.00043	< 0.00054 V	< 0.00042 V	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	0.00081 JP	< 0.00038	< 0.00036	< 0.00037	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	< 0.00072	< 0.00068	< 0.00066	< 0.00067	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	0.1	0.28	--	--	--	< 0.0002	< 0.00019	< 0.00019	< 0.00019	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	0.54	--	--	--	< 0.00023 V	0.0002 JP	< 0.00019	0.00036 J	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.042	0.42	--	--	--	< 0.0002	< 0.00019	< 0.00019	< 0.00019	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	--	--	--	< 0.0002	0.00046 JP	< 0.00019	< 0.00019	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	--	100	--	--	--	< 0.002	< 0.0029	< 0.002 V	< 0.0019	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	< 0.017	< 0.016	< 0.015	< 0.016	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	--	--	17,000	19,100	18,100	17,300	17,500	18,600	18,200	14,200	10,500	12,700	17,200	16,400
Antimony	7440-36-0	--	--	--	0.385 J	0.228 J	0.342 J	0.261 J	0.241 J	0.233 J	0.264 J	0.395 J	0.711	0.313 J	0.745	0.654
Arsenic	7440-38-2	16	13	16	8.5	10.1	11.6	8.71	8.3	8.52	8.54	44	59.5	21.5	85.2	77.8
Barium	7440-39-3	820	350	350	60.8	62.3	60.8	71.7	64.5	84.8	70	54.3	64.1	61.1	85.7	67.8
Beryllium	7440-41-7	47	7.2	14	0.528	0.625	0.631	0.635	0.618	0.683	0.694	0.557	0.582	0.538	0.572	0.603
Cadmium	7440-43-9	7.50	2.5	2.5	0.18 J	0.146 J	0.128 J	0.17 J	0.171 J	0.167 J	0.16 J	0.415	0.435	0.301	0.289	0.236
Calcium	7440-70-2	--	--	--	6,300	3,150	2,350	4,180	6,680	4,540	7,100	51,900	43,000	23,300	2,470	1,280
Chromium	7440-47-3	--	30	36	22.7	29.1	33.4	23.2	22.2	21.8	22.3	19.3	18	14.8	23.2	19.5
Cobalt	7440-48-4	--	--	30	10.7	11.5	11.3	12	11.3	13.1	12	9.27	11.7	8.62	10.7	11.1
Copper	7440-50-8	1720	50	270	25.8	25.7	29.7	28.9	27.6	30.2	29.4	30.5	29.9	24.9	36.9	35.4
Iron	7439-89-6	--	--	2000	26,700	29,200	30,200	30,800	32,200	32,500	32,200	27,600	47,100	24,200	30,800	32,900
Lead	7439-92-1	450	63	400	28.8	34.1	29.9	39	38.3	45.9	51.1	81.8	107	66.7	83.6	66.9
Magnesium	7439-95-4	--	--	--	7,370	6,390	6,020	7,700	8,850	7,460	9,120	38,100	30,000	14,600	5,740	5,930
Manganese	7439-96-5	2000	1600	2000	790	742	698	1,050	749	1,050	795	603	486	654	606	733
Nickel	7440-02-0	130	30	140	21.5	23.8	25.3	28.7	26.4	29.6	28.5	62.1	41	25.2	24.7	24.9
Potassium	7440-09-7	--	--	--	1,510	1,550	1,810	1,850	1,570	2,010	1,980	1,550	1,080	1,400	1,250	1,130
Selenium	7782-49-2	4	3.9	36	0.351 J	0.333 J	0.348 J	0.38 J	0.364 J	0.338 J	0.321 J	0.322 J	0.437 J	0.265 J	0.537 J	0.415 J
Silver	7440-22-4	8.3	2	36	0.0592 J	0.0641 J	0.0497 J	0.0577 J	0.0634 J	0.0498 J	0.042 J	0.122 J	0.13 J	0.0458 J	0.364	0.388
Sodium	7440-23-5	--	--	--	87.7	78 J	89	74.4 J	78.6 J	82.4 J	83.1 J	132	123	81	53.1 J	41.4 J
Thallium	7440-28-0	--	--	--	0.139 J	0.152 J	0.126 J	0.0953 J	0.0995 J	0.127 J	0.156 J	0.103 J	0.0675 J	0.0733 J	0.125 J	0.117 J
Vanadium	7440-62-2	--	--	100	24.8	25.5	26	29.8	27	26.4	27.8	297	508	157	27.7	27.6
Zinc	7440-66-6	2480	109	2200	82.8	81.6	84.1	85.2	83.7	90.4	91.5	100	110	84.8	106	96.7
Mercury	7439-97-6	0.73	0.18	0.81	0.0936 J	0.117	0.12	0.108 J	0.106 J	0.0768 J	0.0537 J	1.1	0.914	0.625	0.665	0.788

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and evident interference.
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB04 5/19/2017 OU1DSB04-S-1.00- 170519 1-2 REG	OU1DSB05 5/19/2017 OU1DSB05-S-0.17- 170519 0.17-0.5 REG	OU1DSB05 5/19/2017 OU1DSB05-S-0.50- 170519 0.5-1 REG	OU1DSB05 5/19/2017 OU1DSB05-S-1.00- 170519 1-2 REG	OU1DSB06 5/19/2017 OU1DSB06-S-0.17- 170519 0.17-0.5 REG	OU1DSB06 5/19/2017 OU1DSB06-S-0.50- 170519 0.5-1 REG	OU1DSB06 5/19/2017 OU1DSB06-S-1.00- 170519 1-2 REG	OU1DSB07 5/22/2017 OU1DSB07-S-0.17- 170522 0.17-0.5 REG	OU1DSB07 5/22/2017 OU1DSB07-S-0.50- 170522 0.5-1 REG	OU1DSB07 5/22/2017 OU1DSB07-S-1.00- 170522 1-2 REG	OU1DSB07 5/22/2017 OU1DSB07-SD-0.50- 170522 0.5-1 FD	OU1DSB08 5/22/2017 OU1DSB08-S-0.17- 170522 0.17-0.5 REG	
Volatile Organic Compounds																	
1,1 Dichloroethene	75-35-4	0.33	0.33	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	35	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	100	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
1,1-Dichloroethane	75-34-3	0.27	0.27	19	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,2,3-Trichlorobenzene	87-61-6	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,2,4-Trichlorobenzene	120-82-1	3.4	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	1.1	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,2-Dichloroethane	107-06-2	0.02	0.02	2.3	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,2-Dichloropropane	78-87-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,3-Dichlorobenzene	541-73-1	2.4	2.4	17	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
1,4-Dichlorobenzene	106-46-7	1.8	1.8	9.8	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	0.12	100	--	--	--	--	--	--	--	--	< 0.004	0.004 J	0.004 J	0.005 J	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.003	< 0.003	< 0.003	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.003	< 0.003	< 0.003	--
Acetone	67-64-1	0.05	0.05	100	--	--	--	--	--	--	--	--	0.05	0.057	0.045	0.062	--
Benzene	71-43-2	0.06	0.06	2.9	--	--	--	--	--	--	--	--	< 0.0005	< 0.0004	< 0.0004	< 0.0005	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
Carbon disulfide	75-15-0	2.7	--	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Carbon Tetrachloride	56-23-5	0.76	0.76	1.4	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Chlorobenzene	108-90-7	1.1	1.1	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
Chloroform	67-66-3	0.37	0.37	10	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	59	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Dibromochloromethane	124-48-1	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Ethylbenzene	100-41-4	1	1	30	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Isopropylbenzene	98-82-8	2.3	--	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
Methyl-t-butyl ether	1634-04-4	0.93	0.93	62	--	--	--	--	--	--	--	--	< 0.0005	< 0.0004	< 0.0004	< 0.0005	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	0.05	51	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Styrene	100-42-5	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	< 0.021	< 0.018	< 0.017	< 0.02	--
Tetrachloroethene	127-18-4	1.3	1.3	5.5	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Toluene	108-88-3	0.7	0.7	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	0.47	10	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	0.02	0.21	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--
Xylene (total)	1330-20-7	1.60	0.26	100	--	--	--	--	--	--	--	--	< 0.001	< 0.0009	< 0.0008	< 0.001	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB04 5/19/2017 OU1DSB04-S-1.00- 170519 REG	OU1DSB05 5/19/2017 OU1DSB05-S-0.17- 170519 REG	OU1DSB05 5/19/2017 OU1DSB05-S-0.50- 170519 REG	OU1DSB05 5/19/2017 OU1DSB05-S-1.00- 170519 REG	OU1DSB06 5/19/2017 OU1DSB06-S-0.17- 170519 REG	OU1DSB06 5/19/2017 OU1DSB06-S-0.50- 170519 REG	OU1DSB06 5/19/2017 OU1DSB06-S-1.00- 170519 REG	OU1DSB07 5/22/2017 OU1DSB07-S-0.17- 170522 REG	OU1DSB07 5/22/2017 OU1DSB07-S-0.50- 170522 REG	OU1DSB07 5/22/2017 OU1DSB07-S-1.00- 170522 REG	OU1DSB07 5/22/2017 OU1DSB07-SD-0.50- 170522 FD	OU1DSB08 5/22/2017 OU1DSB08-S-0.17- 170522 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.11	< 0.13	< 0.11	< 0.13	< 0.12	< 0.13	< 0.14	< 0.12	< 0.11	< 0.11	< 0.11	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 0.34	< 0.39	< 0.32	< 0.38	< 0.35	< 0.39	< 0.42	< 0.36	< 0.32	< 0.33	< 0.33	< 0.39
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	< 0.007	< 0.009	< 0.007	< 0.009	< 0.008	< 0.009	< 0.009	< 0.008	< 0.007	< 0.007	< 0.007	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	0.069	0.028	0.007 J	0.027	0.07	0.048	0.041	0.016 J	0.007 J	0.004 J	0.006 J	0.035
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.11	< 0.13	< 0.11	< 0.13	< 0.12	< 0.13	< 0.14	< 0.12	< 0.11	< 0.11	< 0.11	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 0.19	< 0.22	< 0.18	< 0.21	< 0.2	< 0.22	< 0.23	< 0.2	< 0.18	< 0.18	< 0.18	< 0.22
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
4-Chloroaniline	106-47-8	0.22	--	100	< 0.037	< 0.043	< 0.036	< 0.043	< 0.039	< 0.043	< 0.047	< 0.039	< 0.036	< 0.037	< 0.037	< 0.043
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.019	< 0.022	< 0.018	< 0.021	0.026 J	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	0.027 J
4-Nitroaniline	100-01-6	--	--	--	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
4-Nitrophenol	100-02-7	0.1	--	--	< 0.19	< 0.22	< 0.18	< 0.21	< 0.2	< 0.22	< 0.23	< 0.2	< 0.18	< 0.18	< 0.18	< 0.22
Acenaphthene	83-32-9	98	20	100	0.018 J	0.064	0.014 J	0.037	0.12	0.088	0.044	< 0.004	< 0.004	< 0.004	< 0.004	0.018 J
Acenaphthylene	208-96-8	107	100	100	0.24	0.084	0.023	0.059	0.18	0.17	0.13	0.029	0.007 J	0.004 J	0.01 J	0.06
Acetophenone	98-86-2	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.020	< 0.018	< 0.018	< 0.018	< 0.022
Anthracene	120-12-7	1000	100	100	0.22	0.24	0.05	0.13	0.38	0.29	0.2	0.039	0.007 J	< 0.004	0.01 J	0.073
Atrazine	1912-24-9	--	--	--	< 0.037	< 0.043	< 0.036	< 0.043	< 0.039	< 0.043	< 0.047	< 0.039	< 0.036	< 0.037	< 0.037	< 0.043
Benzaldehyde	100-52-7	--	--	--	< 0.075	< 0.086	< 0.072	< 0.085	0.088 J	< 0.086	< 0.094	0.23	< 0.072	< 0.074	< 0.073	0.090 J
Benzo(a)anthracene	56-55-3	1	1	1	0.51	0.57	0.15	0.29	0.99	0.72	0.42	0.037	0.006 J	< 0.004	0.008 J	0.23
Benzo(a)pyrene	50-32-8	22	1	1	0.44	0.47	0.13	0.25	0.88	0.68	0.34	0.033	0.007 J	< 0.004	0.008 J	0.21
Benzo(b)fluoranthene	205-99-2	1.70	1	1	0.82	0.61	0.16	0.31	1.1	0.87	0.41	0.091	0.016 J	< 0.004	0.019	0.29
Benzo(g,h,i)perylene	191-24-2	1000	100	100	0.35	0.27	0.08	0.17	0.61	0.52	0.22	0.038	0.009 J	< 0.004	0.01 J	0.15
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	0.4	0.23	0.079	0.16	0.45	0.34	0.2	0.029	0.005 J	< 0.004	0.006 J	0.11
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
bis(2-Chloroethyl) ether	111-44-4	--	--	--	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022</

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB04 5/19/2017 OU1DSB04-S-1.00- 170519 1-2 REG	OU1DSB05 5/19/2017 OU1DSB05-S-0.17- 170519 0.17-0.5 REG	OU1DSB05 5/19/2017 OU1DSB05-S-0.50- 170519 0.5-1 REG	OU1DSB05 5/19/2017 OU1DSB05-S-1.00- 170519 1-2 REG	OU1DSB06 5/19/2017 OU1DSB06-S-0.17- 170519 0.17-0.5 REG	OU1DSB06 5/19/2017 OU1DSB06-S-0.50- 170519 0.5-1 REG	OU1DSB06 5/19/2017 OU1DSB06-S-1.00- 170519 1-2 REG	OU1DSB07 5/22/2017 OU1DSB07-S-0.17- 170522 0.17-0.5 REG	OU1DSB07 5/22/2017 OU1DSB07-S-0.50- 170522 0.5-1 REG	OU1DSB07 5/22/2017 OU1DSB07-S-1.00- 170522 1-2 REG	OU1DSB07 5/22/2017 OU1DSB07-SD-0.50- 170522 0.5-1 FD	OU1DSB08 5/22/2017 OU1DSB08-S-0.17- 170522 0.17-0.5 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	2.6	--	--	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	1.8	--	--	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	1.7	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.005	0.019	--	--	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.02	0.097	--	--	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	0.094	0.91	--	--	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.036	0.072	--	--	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	100	--	--	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.005	0.039	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	2.4	4.8	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	2.4	4.8	--	--	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	2.4	4.8	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.014	2.2	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	0.1	0.28	--	--	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	0.54	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.042	0.42	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	--	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	--	100	--	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	--	--	11,800	18,500	15,500	15,900	12,100	13,700	16,500	15,900	14,000	14,600	13,300	15,600
Antimony	7440-36-0	--	--	--	0.581	0.55	0.304 J	2.92	0.327 J	0.372 J	0.311 J	0.197 J	0.145 J	0.158 J	0.195 J	0.284 J
Arsenic	7440-38-2	16	13	16	35.1	149	133	144	36.8	56.8	22.1	5.44	4.68	5.98	5.25	41.1
Barium	7440-39-3	820	350	350	46.7	52.7	45.1	62.3	51.6	57.1	54.9	58.1	52.4	51.9	51.3	48.8
Beryllium	7440-41-7	47	7.2	14	0.428	0.531	0.467	0.765	0.556	0.64	0.665	0.621	0.579	0.592	0.576	0.638
Cadmium	7440-43-9	7.50	2.5	2.5	0.171 J	0.173 J	0.148 J	0.299	0.312	0.429	0.169 J	0.126 J	0.167 J	0.185 J	0.160 J	0.33
Calcium	7440-70-2	--	--	--	1,750	4,190	11,400	7,230	16,700	18,000	4,360	871	777	948	829	19,900
Chromium	7440-47-3	--	30	36	14.3	19.2	16.3	22.8	16	15.8	15.4	18.3	16.7	16.4	14.9	15.4
Cobalt	7440-48-4	--	--	30	8.85	14.1	11	11.7	8.07	8.61	8.95	11.7	12.4	11.5	11.6	9.67
Copper	7440-50-8	1720	50	270	39.5	31.1	43.4	47.4	29.6	25.8	17.5	25.7	29	27.3	26.9	47.6
Iron	7439-89-6	--	--	2000	24,900	36,800	30,400	29,000	20,500	23,100	23,400	28,800	28,200	27,100	25,400	26,900
Lead	7439-92-1	450	63	400	49.5	32.5	23.2	74.2	74.8	60	30.3	17.6	16.7	12.7	18.6	39.3
Magnesium	7439-95-4	--	--	--	4,170	8,600	7,460	9,050	13,000	15,800	6,320	5,540	5,260	5,340	4,970	16,400
Manganese	7439-96-5	2000	1600	2000	943	890	850	801	535	590	527	680	600	713	594	537
Nickel	7440-02-0	130	30	140	19.4	29.6	25.5	31.8	17.6	17.4	18.1	23	25.3	24.4	21.1	22.9
Potassium	7440-09-7	--	--	--	969	1,410	1,260	1,550	1,280	1,520	1,080	2,370	1,690	1,990	2,130	1,290
Selenium	7782-49-2	4	3.9	36	0.424 J	0.28 J	0.224 J	0.381 J	0.287 J	0.232 J	0.342 J	0.114 J	< 0.0943	< 0.0831	0.116 J	0.226 J
Silver	7440-22-4	8.3	2	36	0.0764 J	0.0505 J	0.0313 J	0.07 J	0.0835 J	0.0634 J	0.0835 J	0.0588 J	0.0740 J	0.0344 J	0.0699 J	0.0630 J
Sodium	7440-23-5	--	--	--	41.3 J	119	99.9	172	63.5 J	69.4 J	48.2 J	44.8 J	45.7 J	69.3 J	46.4 J	48.2 J
Thallium	7440-28-0	--	--	--	0.119 J	0.101 J	0.0623 J	0.0981 J	0.0898 J	0.108 J	0.14 J	0.0789 J	0.0634 J	0.101 J	0.0752 J	0.0856 J
Vanadium	7440-62-2	--	--	100	20	22.4	18.4	23.3	25.4	24.4	20.6	18.9	19.4	19.1	22.4	
Zinc	7440-66-6	2480	109	2200	71.8	101	78.8	173	113	97.5	79.8	91.8	100	87.7	91.9	94.4
Mercury	7439-97-6	0.73	0.18	0.81	0.221	0.0872 J	0.0545 J	0.243	0.441	0.597	0.193	0.179	0.173	0.0402 J	0.281	0.448

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus d
evident interference.
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB08 5/22/2017 OU1DSB08-S-0.50- 170522 0.5-1 REG	OU1DSB08 5/22/2017 OU1DSB08-S-1.00- 170522 1-2 REG	OU1DSB09 5/22/2017 OU1DSB09-S-0.17- 170522 0.17-0.5 REG	OU1DSB09 5/22/2017 OU1DSB09-S-0.50- 170522 0.5-1 REG	OU1DSB09 5/22/2017 OU1DSB09-S-1.00- 170522 1-2 REG	OU1DSB10 5/22/2017 OU1DSB10-S-0.17- 170522 0.17-0.5 REG	OU1DSB10 5/22/2017 OU1DSB10-S-0.50- 170522 0.5-1 REG	OU1DSB10 5/22/2017 OU1DSB10-S-1.00- 170522 1-2 REG	OU1DSB11 5/22/2017 OU1DSB11-S-0.17- 170522 0.17-0.5 REG	OU1DSB11 5/22/2017 OU1DSB11-S-0.50- 170522 0.5-1 REG	OU1DSB11 5/22/2017 OU1DSB11-S-1.00- 170522 1-2 REG
Volatile Organic Compounds															
1,1-Dichloroethene	75-35-4	0.33	0.33	100	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	35	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	100	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
1,1-Dichloroethane	75-34-3	0.27	0.27	19	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	1.1	100	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	0.02	2.3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
1,2-Dichloropropane	78-87-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	2.4	17	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	1.8	9.8	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	0.12	100	--	--	--	--	--	0.006 J	0.009 J	0.007 J	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	< 0.004	< 0.004	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	< 0.004	< 0.004	< 0.003	--	--	--
Acetone	67-64-1	0.05	0.05	100	--	--	--	--	--	0.09	0.058	0.13	--	--	--
Benzene	71-43-2	0.06	0.06	2.9	--	--	--	--	--	< 0.0006	0.0008 J	< 0.0005	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
Carbon disulfide	75-15-0	2.7	--	100	--	--	--	--	--	< 0.001	0.004 J	0.002 J	--	--	--
Carbon Tetrachloride	56-23-5	0.76	0.76	1.4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Chlorobenzene	108-90-7	1.1	1.1	100	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
Chloroform	67-66-3	0.37	0.37	10	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	59	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Dibromochloromethane	124-48-1	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Ethylbenzene	100-41-4	1	1	30	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	100	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	0.93	62	--	--	--	--	--	< 0.0006	< 0.0006	< 0.0005	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	0.05	51	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Styrene	100-42-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	< 0.024	< 0.024	< 0.02	--	--	--
Tetrachloroethene	127-18-4	1.3	1.3	5.5	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Toluene	108-88-3	0.7	0.7	100	--	--	--	--	--	< 0.001	0.001 J	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	0.47	10	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	0.02	0.21	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	100	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB08 5/22/2017 OU1DSB08-S-0.50- 170522 0.5-1 REG	OU1DSB08 5/22/2017 OU1DSB08-S-1.00- 170522 1-2 REG	OU1DSB09 5/22/2017 OU1DSB09-S-0.17- 170522 0.17-0.5 REG	OU1DSB09 5/22/2017 OU1DSB09-S-0.50- 170522 0.5-1 REG	OU1DSB09 5/22/2017 OU1DSB09-S-1.00- 170522 1-2 REG	OU1DSB10 5/22/2017 OU1DSB10-S-0.17- 170522 0.17-0.5 REG	OU1DSB10 5/22/2017 OU1DSB10-S-0.50- 170522 0.5-1 REG	OU1DSB10 5/22/2017 OU1DSB10-S-1.00- 170522 1-2 REG	OU1DSB11 5/22/2017 OU1DSB11-S-0.17- 170522 0.17-0.5 REG	OU1DSB11 5/22/2017 OU1DSB11-S-0.50- 170522 0.5-1 REG	OU1DSB11 5/22/2017 OU1DSB11-S-1.00- 170522 1-2 REG
Semivolatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.13	< 0.61	< 0.56	< 0.11	< 0.56	< 0.11
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 0.35	< 0.34	< 0.33	< 0.34	< 0.33	< 0.39	< 1.8	< 1.7	< 0.34	< 1.7	< 0.33
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2-Chloronaphthalene	91-58-7	--	--	--	< 0.008	< 0.007	< 0.007	< 0.008	< 0.007	< 0.009	< 0.041	< 0.037	< 0.007	< 0.037	< 0.007
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	0.034	0.006 J	< 0.004	< 0.004	< 0.004	0.009 J	< 0.02	< 0.019	0.005 J	< 0.019	0.013 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.13	< 0.61	< 0.56	< 0.11	< 0.56	< 0.11
3-Nitroaniline	99-09-2	0.5	--	--	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 0.19	< 0.19	< 0.18	< 0.19	< 0.18	< 0.22	< 1	< 0.93	< 0.19	< 0.93	< 0.18
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
4-Chloroaniline	106-47-8	0.22	--	100	< 0.039	< 0.037	< 0.037	< 0.038	< 0.036	< 0.044	< 0.2	< 0.19	< 0.037	< 0.19	< 0.037
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
4-Nitroaniline	100-01-6	--	--	--	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
4-Nitrophenol	100-02-7	0.1	--	--	< 0.19	< 0.19	< 0.18	< 0.19	< 0.18	< 0.22	< 1	< 0.93	< 0.19	< 0.93	< 0.18
Acenaphthene	83-32-9	98	20	100	0.008 J	0.011 J	< 0.004	< 0.004	< 0.004	0.013 J	< 0.02	< 0.019	< 0.004	< 0.019	0.007 J
Acenaphthylene	208-96-8	107	100	100	0.029	0.034	0.02	0.007 J	0.004 J	0.016 J	0.033 J	0.024 J	0.011 J	0.03 J	0.029 J
Acetophenone	98-86-2	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.10	< 0.093	< 0.019	< 0.094	< 0.018
Anthracene	120-12-7	1000	100	100	0.032	0.035	0.019	< 0.004	< 0.004	0.038	0.037 J	0.028 J	0.01 J	0.035 J	0.028
Atrazine	1912-24-9	--	--	--	< 0.039	< 0.037	< 0.037	< 0.038	< 0.036	< 0.044	< 0.20	< 0.19	< 0.037	< 0.19	< 0.037
Benzaldehyde	100-52-7	--	--	--	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Benzo(a)anthracene	56-55-3	1	1	1	0.1	0.087	0.074	0.006 J	< 0.004	0.27	0.16	0.13	0.029	0.098	0.075
Benzo(a)pyrene	50-32-8	22	1	1	0.11	0.079	0.058	0.007 J	< 0.004	0.32	0.19	0.15	0.029	0.1	0.073
Benzo(b)fluoranthene	205-99-2	1.70	1	1	0.12	0.1	0.085	0.009 J	0.005 J	0.44	0.26	0.19	0.049	0.12	0.099
Benzo(g,h,i)perylene	191-24-2	1000	100	100	0.075	0.056	0.028	< 0.004	< 0.004	0.17	0.12	0.091 J	0.022	0.069 J	0.052
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	0.059	0.043	0.027	< 0.004	< 0.004	0.17	0.094 J	0.073 J	0.015 J	0.067 J	0.037
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
bis(2-Chloroethyl) ether	111-44-4	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
bis(2-Ethylhexyl)phthalate	117-81-7	435	--	50	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Butylbenzylphthalate	85-68-7	122	--	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Caprolactam	105-60-2	--	--	--	< 0.039	< 0.037	< 0.037	< 0.038	< 0.036	< 0.044	< 0.20	< 0.19	< 0.037	< 0.19	< 0.037
Carbazole	86-74-8	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
Chrysene	218-01-9	1	1	1	0.13	0.092	0.074	0.008 J	< 0.004	0.28	0.17	0.15	0.035	0.11	0.087
Di-n-butylphthalate	84-74-2	8.1	--	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Di-n-octylphthalate	117-84-0	120	--	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Dibenz(a,h)anthracene	53-70-3	1000	0.33	0.33	0.017 J	0.014 J	0.009 J	< 0.004	< 0.004	0.053	< 0.02	0.035 J	0.007 J	< 0.019	0.016 J
Dibenzofuran	132-64-9	6.20	7	14	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
Diethylphthalate	84-66-2	7.1	--	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Dimethyl phthalate	131-11-3	27	--	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.10	< 0.093	< 0.019	< 0.094	< 0.018
Fluoranthene	206-44-0	1000	100	100	0.15	0.16	0.12	0.011 J	0.004 J	0.36	0.22	0.18	0.052	0.21	0.13
Fluorene	86-73-7	386	30	100	0.01 J	0.009 J	< 0.004	< 0.004	< 0.004	0.012 J	< 0.02	< 0.019	< 0.004	< 0.019	0.011 J
Hexachlorobenzene	118-74-1	1.4	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.02	< 0.019	< 0.004	< 0.019	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
Hexachlorocyclopentadiene	77-47-4	--	--	--	< 0.19	< 0.19	< 0.18	< 0.19	< 0.18	< 0.22	< 1	< 0.93	< 0.19	< 0.93	< 0.18
Hexachloroethane	67-72-1	--	--	--	< 0.039	< 0.037	< 0.037	< 0.038	< 0.036	< 0.044	< 0.2	< 0.19	< 0.037	< 0.19	< 0.037
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	0.5	0.5	0.069	0.054	0.034	< 0.004	< 0.004	0.16	0.12	0.094 J	0.019	0.059 J	0.043
Isophorone	78-59-1	4.4	--	100	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	--	--	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
Naphthalene	91-20-3	12	12	100	0.021	0.011 J	0.004 J	< 0.004	< 0.004	0.008 J	0.044 J	< 0.019	0.005 J	0.019 J	

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB08 5/22/2017 OU1DSB08-S-0.50- 170522 0.5-1 REG	OU1DSB08 5/22/2017 OU1DSB08-S-1.00- 170522 1-2 REG	OU1DSB09 5/22/2017 OU1DSB09-S-0.17- 170522 0.17-0.5 REG	OU1DSB09 5/22/2017 OU1DSB09-S-0.50- 170522 0.5-1 REG	OU1DSB09 5/22/2017 OU1DSB09-S-1.00- 170522 1-2 REG	OU1DSB10 5/22/2017 OU1DSB10-S-0.17- 170522 0.17-0.5 REG	OU1DSB10 5/22/2017 OU1DSB10-S-0.50- 170522 0.5-1 REG	OU1DSB10 5/22/2017 OU1DSB10-S-1.00- 170522 1-2 REG	OU1DSB11 5/22/2017 OU1DSB11-S-0.17- 170522 0.17-0.5 REG	OU1DSB11 5/22/2017 OU1DSB11-S-0.50- 170522 0.5-1 REG	OU1DSB11 5/22/2017 OU1DSB11-S-1.00- 170522 1-2 REG	
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.02	< 0.02
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0051	< 0.026	< 0.025
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0089	< 0.045	< 0.044
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0037	< 0.019	< 0.018
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0037	< 0.019	< 0.018
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0037	< 0.019	< 0.018
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0055	< 0.028	< 0.027
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0037	< 0.019	< 0.018
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0037	< 0.019	< 0.018
Pesticides																
4,4-DDD	72-54-8	14	0.0033	2.6	--	--	--	--	--	--	--	--	--	0.0005 JP	0.0027	0.0039
4,4-DDE	72-55-9	17	0.0033	1.8	--	--	--	--	--	--	--	--	--	0.0087 JP	0.14	0.2
4,4-DDT	50-29-3	136	0.0033	1.7	--	--	--	--	--	--	--	--	--	0.011	0.096	0.076 J
Aldrin	309-00-2	0.19	0.005	0.019	--	--	--	--	--	--	--	--	--	< 0.00019	< 0.00019	< 0.00019
alpha BHC	319-84-6	0.02	0.02	0.097	--	--	--	--	--	--	--	--	--	< 0.00019	< 0.00019	< 0.00019
alpha Chlordane	5103-71-9	2.9	0.094	0.91	--	--	--	--	--	--	--	--	--	< 0.00019	< 0.00019	< 0.00019
beta BHC	319-85-7	0.09	0.036	0.072	--	--	--	--	--	--	--	--	--	< 0.00033	< 0.00034	< 0.00033
delta BHC	319-86-8	0.25	0.04	100	--	--	--	--	--	--	--	--	--	< 0.0005	< 0.0005	< 0.0005
DIELDRIN	60-57-1	0.1	0.005	0.039	--	--	--	--	--	--	--	--	--	< 0.00037	< 0.00037	< 0.00037
Endosulfan I	959-98-8	102	2.4	4.8	--	--	--	--	--	--	--	--	--	< 0.00024	< 0.00031 V	< 0.00024
Endosulfan II	33213-65-9	102	2.4	4.8	--	--	--	--	--	--	--	--	--	< 0.00037	0.00061 JP	0.00056 J
ENDOSULFAN SULFATE	1031-07-8	1000	2.4	4.8	--	--	--	--	--	--	--	--	--	< 0.00037	< 0.00037	< 0.00037
ENDRIN	72-20-8	0.06	0.014	2.2	--	--	--	--	--	--	--	--	--	< 0.00037	< 0.00037	< 0.00037
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00037	< 0.00089 V	0.00086 J
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00067	< 0.00067	< 0.00067
gamma BHC (Lindane)	58-89-9	0.1	0.1	0.28	--	--	--	--	--	--	--	--	--	< 0.00019	< 0.00019	< 0.00019
gamma Chlordane	5103-74-2	14	--	0.54	--	--	--	--	--	--	--	--	--	< 0.00019	0.00092 J	< 0.00019
HEPTACHLOR	76-44-8	0.38	0.042	0.42	--	--	--	--	--	--	--	--	--	< 0.00019	< 0.00019	< 0.00019
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	--	--	--	--	--	--	--	--	--	< 0.00019	0.00046 J	< 0.00034 V
METHOXYCHLOR	72-43-5	900	--	100	--	--	--	--	--	--	--	--	--	< 0.0019	< 0.0019	< 0.0019
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.016	< 0.016	< 0.016
Metals																
Aluminum	7429-90-5	--	--	--	14,800	16,000	15,400	18,400	13,100	15,100	13,000	10,600	14,800	10,000	8,590	
Antimony	7440-36-0	--	--	--	0.196 J	0.163 J	0.237 J	0.146 J	0.122 J	0.233 J	0.373 J	0.247 J	0.199 J	0.475	0.561	
Arsenic	7440-38-2	16	13	16	15.6	11.9	6.77	6.38	4.92	22.4	62.6	42.4	19.2	79	108	
Barium	7440-39-3	820	350	350	48.1	37.8	43	55	35.2	84.7	48.2	39.6	41.1	36.6	36.7	
Beryllium	7440-41-7	47	7.2	14	0.493	0.648	0.598	0.623	0.435	0.707	0.823	0.839	0.571	0.569	0.537	
Cadmium	7440-43-9	7.50	2.5	2.5	0.143 J	0.126 J	0.174 J	0.0969 J	0.117 J	0.359	0.329	0.23	0.395	0.675	0.926	
Calcium	7440-70-2	--	--	--	2,670	1,910	733	262	175	6,020	51,500	14,800	6,740	60,000	67,000	
Chromium	7440-47-3	--	30	36	13.9	15.6	16.4	17.6	12.7	16.5	12	10.9	16.8	11.9	11.3	
Cobalt	7440-48-4	--	--	30	8.82	9.98	10.9	11.5	8.92	10.6	8.09	6.6	9.74	6.22	5.86	
Copper	7440-50-8	1720	50	270	23.2	25.6	24.7	24	18.1	25.2	18	15	23.2	17.8	17.7	
Iron	7439-89-6	--	--	2000	22,400	29,000	27,400	29,800	23,600	27,900	23,400	20,800	28,000	19,300	19,000	
Lead	7439-92-1	450	63	400	19.4	16.3	16.9	15	9.48	31.2	43.2	33.2	22.6	52.5	51.1	
Magnesium	7439-95-4	--	--	--	5,680	6,290	5,050	6,010	4,440	8,090	35,300	11,800	9,130	44,800	44,200	
Manganese	7439-96-5	2000	1600	2000	537	612	628	699	452	2,790	421	385	567	431	429	
Nickel	7440-02-0	130	30	140	17	22.9	22.1	26.4	21.1	22.5	16.8	22.1	21.8	12.8	17.1	
Potassium	7440-09-7	--	--	--	1,470	1,560	1,610	1,660	1,230	1,500	1,560	1,390	1,360	1,260	1,170	
Selenium	7782-49-2	4	3.9	36	0.188 J	0.139 J	0.214 J	0.210 J	0.106 J	0.189 J	0.175 J	0.135 J	0.149 J	0.163 J	0.160 J	
Silver	7440-22-4	8.3	2	36	0.0390 J	0.0235 J	0.0522 J	< 0.0256	< 0.0227	0.0533 J	0.0447 J	0.0419 J	0.0510 J	0.0580 J	0.0665 J	
Sodium	7440-23-5	--	--	--	43.1 J	46.1 J	38.8 J	40.8 J	32.6 J	56.4 J	83.1 J	77.9	40.4 J	89.8	111	
Thallium	7440-28-0	--	--	--	0.0929 J	0.0786 J	0.0932 J	0.109 J	0.0853 J	0.112 J	0.0791 J	0.0770 J	0.0845 J	0.0842 J	0.0876 J	
Vanadium	7440-62-2	--	--	100	20	20.8	22.5	22.4	14.1	23.3	23.7	21.2	21.5	19	15.6	
Zinc	7440-66-6	2480	109	2200	71.1	73	76.8	68.7	52.1	84.7	84	68.3	85	79.4	82.8	
Mercury	7439-97-6	0.73	0.18	0.81	0.126	0.101 J	0.0494 J	0.0454 J	0.0270 J	0.404	0.944	0.867	0.408	2.6	2.66	

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus d
evident interference.
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB03 11/12/2018 OU1DSB03-S-10.00- 10-12 REG	OU1DSB03 11/12/2018 OU1DSB03-S-14.00- 14-16 REG	OU1DSB03 11/12/2018 OU1DSB03-S-6.00- 6-8 REG	OU1DSB04 11/13/2018 OU1DSB04-S-10.00- 10-12 REG	OU1DSB04 11/13/2018 OU1DSB04-S-6.00- 6-8 REG	OU1DSB05 11/12/2018 OU1DSB05-S-14.00- 14-16 REG	OU1DSB05 11/12/2018 OU1DSB05-S-4.00- 4-6 REG	OU1DSB05 11/12/2018 OU1DSB05-S-6.00- 6-8 REG	OU1DSB06 11/12/2018 OU1DSB06-S-16.00- 16-18 REG	OU1DSB06 11/12/2018 OU1DSB06-S-2.00- 2-4 REG	OU1DSB06 11/12/2018 OU1DSB06-S-6.00- 6-8 REG	OU1DSB08 11/12/2018 OU1DSB08-S-14.00- 14-16 REG
Volatile Organic Compounds																
1,1-Dichloroethene	75-35-4	0.33	0.33	100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	35	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	0.27	19	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	--	--	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	--	--	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	1.1	100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	0.02	2.3	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	--	--	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	2.4	17	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	1.8	9.8	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	0.12	100	< 0.0009	< 0.0009	0.003 J	0.001 J	0.008 J	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	0.05	100	0.024	0.025	0.043	0.03	0.081	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	0.06	2.9	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	< 0.0006	< 0.0007	< 0.0007	< 0.0007	< 0.0007	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	0.76	1.4	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	1.1	100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	0.37	10	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	59	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	--	--	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	1	30	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	100	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	0.93	62	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	0.05	51	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	--	--	--	--	--	--	--
Styrene	100-42-5	--	--	--	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	< 0.0007	< 0.0008	< 0.0008	< 0.0009	< 0.0008	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	< 0.013	< 0.014	< 0.015	< 0.016	< 0.014	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	1.3	5.5	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	0.7	100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	0.47	10	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	< 0.0006	< 0.0007	< 0.0007	< 0.0007	< 0.0007	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	0.02	0.21	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	100	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB03 11/12/2018 OU1DSB03-S-10.00- 10-12 REG	OU1DSB03 11/12/2018 OU1DSB03-S-14.00- 14-16 REG	OU1DSB03 11/12/2018 OU1DSB03-S-6.00- 6-8 REG	OU1DSB04 11/12/2018 OU1DSB04-S-10.00- 10-12 REG	OU1DSB04 11/12/2018 OU1DSB04-S-6.00- 6-8 REG	OU1DSB05 11/12/2018 OU1DSB05-S-14.00- 14-16 REG	OU1DSB05 11/12/2018 OU1DSB05-S-4.00- 4-6 REG	OU1DSB05 11/12/2018 OU1DSB05-S-6.00- 6-8 REG	OU1DSB06 11/12/2018 OU1DSB06-S-16.00- 16-18 REG	OU1DSB06 11/12/2018 OU1DSB06-S-2.00- 2-4 REG	OU1DSB06 11/12/2018 OU1DSB06-S-6.00- 6-8 REG	OU1DSB08 11/12/2018 OU1DSB08-S-14.00- 14-16 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.11	< 0.11	< 0.12	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.074	< 0.074	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 0.41	< 0.41	< 0.43	< 0.47	< 0.44	< 0.4	< 0.45	< 0.45	< 0.4	< 0.39	< 0.41	< 0.4
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	< 0.007	< 0.008	< 0.008	< 0.008	< 0.008	< 0.007	< 0.008	< 0.008	< 0.007	< 0.007	< 0.008	< 0.007
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	< 0.011	< 0.011	< 0.012	< 0.013	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.03	< 0.03	< 0.031	< 0.034	< 0.032	< 0.029	< 0.033	< 0.033	< 0.029	< 0.029	< 0.03	< 0.029
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.11	< 0.11	< 0.12	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11
3-Nitroaniline	99-09-2	0.5	--	--	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 0.19	< 0.19	< 0.2	< 0.21	< 0.2	< 0.18	< 0.2	< 0.2	< 0.18	< 0.18	< 0.19	< 0.18
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
4-Chloroaniline	106-47-8	0.22	--	100	< 0.037	< 0.038	< 0.039	< 0.042	< 0.04	< 0.037	< 0.041	< 0.041	< 0.036	< 0.036	< 0.038	< 0.036
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
4-Nitroaniline	100-01-6	--	--	--	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
4-Nitrophenol	100-02-7	0.1	--	--	< 0.19	< 0.19	< 0.2	< 0.21	< 0.2	< 0.18	< 0.2	< 0.2	< 0.18	< 0.18	< 0.19	< 0.18
Acenaphthene	83-32-9	98	20	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	< 0.026	< 0.026	< 0.027	< 0.03	< 0.028	< 0.026	< 0.029	< 0.029	< 0.025	< 0.025	< 0.026	< 0.025
Anthracene	120-12-7	1000	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	< 0.037	< 0.038	< 0.039	< 0.042	< 0.04	< 0.037	< 0.041	< 0.041	< 0.036	< 0.036	< 0.038	< 0.036
Benzaldehyde	100-52-7	--	--	--	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
Benzo(a)anthracene	56-55-3	1	1	1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	1	1	< 0.007	< 0.008	< 0.008	< 0.008	< 0.008	< 0.007	0.008 J	< 0.008	< 0.007	< 0.007	< 0.008	< 0.007
Benzo(b)fluoranthene	205-99-2	1.70	1	1	< 0.004	< 0.004	< 0.004	< 0.004	0.004 J	< 0.004	0.012 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	100	100	< 0.007	< 0.008	< 0.008	< 0.008	< 0.008	< 0.007	< 0.008	< 0.008	< 0.007	< 0.007	< 0.008	< 0.007
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
bis(2-Chloroethyl) ether																

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU1DSB03 11/12/2018 OU1DSB03-S-10.00- 10-12 REG	OU1DSB03 11/12/2018 OU1DSB03-S-14.00- 14-16 REG	OU1DSB03 11/12/2018 OU1DSB03-S-6.00- 6-8 REG	OU1DSB04 11/13/2018 OU1DSB04-S-10.00- 10-12 REG	OU1DSB04 11/13/2018 OU1DSB04-S-6.00- 6-8 REG	OU1DSB05 11/12/2018 OU1DSB05-S-14.00- 14-16 REG	OU1DSB05 11/12/2018 OU1DSB05-S-4.00- 4-6 REG	OU1DSB05 11/12/2018 OU1DSB05-S-6.00- 6-8 REG	OU1DSB06 11/12/2018 OU1DSB06-S-16.00- 16-18 REG	OU1DSB06 11/12/2018 OU1DSB06-S-2.00- 2-4 REG	OU1DSB06 11/12/2018 OU1DSB06-S-6.00- 6-8 REG	OU1DSB08 11/12/2018 OU1DSB08-S-14.00- 14-16 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	< 0.0039 D1	< 0.0039 D1	< 0.0041 D1	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	< 0.005 D1	< 0.0049 D1	< 0.0052 D1	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	< 0.0088 D1	< 0.0086 D1	< 0.009 D1	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	< 0.0036 D1	< 0.0035 D1	< 0.0037 D1	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	< 0.0036 D1	< 0.0035 D1	< 0.0037 D1	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	< 0.0036 D1	< 0.0035 D1	< 0.0037 D1	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	< 0.0054 D1	< 0.0052 D1	< 0.0055 D1	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	< 0.0036 D1	< 0.0035 D1	< 0.0037 D1	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	< 0.0036 D1	< 0.0035 D1	< 0.0037 D1	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	2.6	--	--	--	--	--	--	--	--	< 0.00036 D1	< 0.00035 D1	< 0.00037 D1	--
4,4-DDE	72-55-9	17	0.0033	1.8	--	--	--	--	--	--	--	--	< 0.00036 D1	< 0.00035 D1	< 0.00037 D1	--
4,4-DDT	50-29-3	136	0.0033	1.7	--	--	--	--	--	--	--	--	< 0.00087 D1	< 0.00084 D1	< 0.00089 D1	--
Aldrin	309-00-2	0.19	0.005	0.019	--	--	--	--	--	--	--	--	< 0.00019 D1	< 0.00018 D1	< 0.00019 D1	--
alpha BHC	319-84-6	0.02	0.02	0.097	--	--	--	--	--	--	--	--	< 0.00019 D1	< 0.00018 D1	< 0.00019 D1	--
alpha Chlordane	5103-71-9	2.9	0.094	0.91	--	--	--	--	--	--	--	--	< 0.00019 D1	< 0.00018 D1	< 0.00019 D1	--
beta BHC	319-85-7	0.09	0.036	0.072	--	--	--	--	--	--	--	--	< 0.00048 D1	< 0.00047 D1	< 0.0005 D1	--
delta BHC	319-86-8	0.25	0.04	100	--	--	--	--	--	--	--	--	< 0.00049 D1	< 0.00048 D1	< 0.00051 D1	--
DIELDRIN	60-57-1	0.1	0.005	0.039	--	--	--	--	--	--	--	--	< 0.00036 D1	< 0.00035 D1	< 0.00037 D1	--
Endosulfan I	959-98-8	102	2.4	4.8	--	--	--	--	--	--	--	--	< 0.00024 D1	< 0.00024 D1	< 0.00025 D1	--
Endosulfan II	33213-65-9	102	2.4	4.8	--	--	--	--	--	--	--	--	< 0.0012 D1	< 0.0012 D1	< 0.0012 D1	--
ENDOSULFAN SULFATE	1031-07-8	1000	2.4	4.8	--	--	--	--	--	--	--	--	< 0.00036 D1	< 0.00035 D1	< 0.00037 D1	--
ENDRIN	72-20-8	0.06	0.014	2.2	--	--	--	--	--	--	--	--	< 0.00075 D1	< 0.00073 D1	< 0.00077 D1	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	< 0.00036 D1	< 0.00035 D1	< 0.00037 D1	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	< 0.00066 D1	< 0.00064 D1	< 0.00068 D1	--
gamma BHC (Lindane)	58-89-9	0.1	0.1	0.28	--	--	--	--	--	--	--	--	< 0.00023 D1	< 0.00022 D1	< 0.00024 D1	--
gamma Chlordane	5103-74-2	14	--	0.54	--	--	--	--	--	--	--	--	< 0.00027 D1	< 0.00027 D1	< 0.00028 D1	--
HEPTACHLOR	76-44-8	0.38	0.042	0.42	--	--	--	--	--	--	--	--	< 0.00034 D1	< 0.00033 D1	< 0.00035 D1	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	--	--	--	--	--	--	--	--	< 0.00019 D1	< 0.00018 D1	< 0.00019 D1	--
METHOXYCHLOR	72-43-5	900	--	100	--	--	--	--	--	--	--	--	< 0.0019 D1	< 0.0019 D1	< 0.002 D1	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	< 0.015 Z D1	< 0.015 Z D1	< 0.016 Z D1	--
Metals																
Aluminum	7429-90-5	--	--	--	15,200	13,800	23,000	20,800	18,400	11,300	14,100	18,500	11,900	14,200	12,300	13,700
Antimony	7440-36-0	--	--	--	< 0.135	0.133 J	< 0.141	< 0.131	< 0.115	< 0.114	0.116 J	0.15 J	< 0.13	0.127 J	0.104 J	0.18 J
Arsenic	7440-38-2	16	13	16	6.82	5.4	6.12	10.1	5.43	4.42	6.37	5.55	4.39	4.77	6.32	6.37
Barium	7440-39-3	820	350	350	23.2	75.4	68	102	53.4	35.7	53.7	54.4	55.2	39.1	40.8	60.8
Beryllium	7440-41-7	47	7.2	14	0.746	0.627	0.637	0.798	0.619	0.799	0.582	0.725	0.503	0.754	0.66	0.645
Cadmium	7440-43-9	7.50	2.5	2.5	0.14 J	0.0778 J	0.119 J	0.138 J	0.0796 J	0.0468 J	0.134 J	0.112 J	0.0718 J	0.0827 J	0.158 J	0.112 J
Calcium	7440-70-2	--	--	--	15,900	19,600	1,420	1,670	439	23,400	1,430	1,710	18,100	847	1,270	21,000
Chromium	7440-47-3	--	30	36	8.75	19.7	20.3	26.9	19.2	12	14.6	15.9	15.2	14.5	14.6	19.5
Cobalt	7440-48-4	--	--	30	12.3	10.3	7.97	15.8	12.2	10.5	10.7	17.5	9.79	10.8	10.9	11.4
Copper	7440-50-8	1720	50	270	9.76	26.4	12.9	28.8	22.3	13.7	19.8	25.2	23.1	17.3	21.9	29.4
Iron	7439-89-6	--	--	2000	25,600	23,900	20,000	32,800	24,400	23,000	23,200	26,600	20,700	26,600	24,700	24,500
Lead	7439-92-1	450	63	400	11.5	10.2	10.4	14.7	10.9	9.41	23	12.7	9.75	9.03	11.7	11.3
Magnesium	7439-95-4	--	--	--	8,490	9,280	3,870	6,560	5,020	9,120	4,790	5,510	9,520	5,040	4,850	7,140
Manganese	7439-96-5	2000	1600	2000	470	550	271	501	611	355	320	388	506	711	592	661
Nickel	7440-02-0	130	30	140	22.6	22.2	18	30.5	22.1	19.7	23.2	28.2	19.3	21	23.3	25.5
Potassium	7440-09-7	--	--	--	2,560	2,420	1,250	1,800	1,210	1,330	1,300	2,820	1,990	1,460	1,540	2,500
Selenium	7782-49-2	4	3.9	36	0.136 J	0.169 J	0.368	< 0.145	0.286 J	0.154 J	0.237 J	0.172 J	0.164 J	0.129 J	< 0.124	< 0.135
Silver	7440-22-4	8.3	2	36	< 0.0422	< 0.0374	0.0786 J	< 0.045	< 0.0471	< 0.036	< 0.0346	0.0715 J	0.0359 J	< 0.0371	< 0.0387	< 0.042
Sodium	7440-23-5	--	--	--	< 86.1	74.9 J	251	94.2 J	< 73.3	< 72.4	384	337	100 J	103 J	156	108 J
Thallium	7440-28-0	--	--	--	0.106	0.1	0.221	0.134	0.154	0.0936	0.0923	0.132	0.0773 J	0.0927	0.0774 J	0.109
Vanadium	7440-62-2	--	--	100	11.3	22.6	24.2	24.9	22.9	14.6	17.3	17.6	17.5	19.1	17.1	19.4
Zinc	7440-66-6	2480	109	2200	72.7	62.8	69	76.3	73.6	61	63.2	83	58.7	64.7	75	74.7
Mercury	7439-97-6	0.73	0.18	0.81	< 0.0341	< 0.0353	0.0362 J	< 0.0391	< 0.0362	< 0.0316	< 0.0385	< 0.0385	< 0.0331	< 0.0333	< 0.0327	< 0.033

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
D1: Indicates for dual column analyses that the result is reported from column 1
J : Result detected between the reporting limit and the method detection limit.
Z: Laboratory defined - see analysis report
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	OU1DSB08 11/12/2018 OU1DSB08-S-4.00- 4-6 REG	OU1DSB08 11/12/2018 OU1DSB08-S-6.00- 6-8 REG	OU1DSB10 11/13/2018 OU1DSB10-S-10.00- 10-12 REG	OU1DSB10 11/13/2018 OU1DSB10-S-2.00- 2-4 REG	OU1DSB10 11/13/2018 OU1DSB10-S-6.00- 6-8 REG	OU1DSB10 11/13/2018 OU1DSB10-SD-6.00- 6-8 FD	OU1DSB11 11/13/2018 OU1DSB11-S-14.00- 14-16 REG	OU1DSB11 11/13/2018 OU1DSB11-S-2.00- 2-4 REG	OU1DSB11 11/13/2018 OU1DSB11-S-6.00- 6-8 REG	SWSL-74 10/31/2006 SWSL-74(7-9) 7-9 REG	SWSL-75 10/31/2006 SWSL-75(12-14.5) 12-14.5 REG	SWSL-76 10/31/2006 SWSL-76(4-12) 4-12 REG	SWSL-77 10/31/2006 SWSL-77(8-10) 8-10 REG	
Volatile Organic Compounds														
1,1 Dichloroethene	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
1,1,1-Trichloroethane	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
1,1,2,2-Tetrachloroethane	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
1,1,2-Trichloroethane	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
1,1,2-Trichlorotrifluoroethane (Freon 113)	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	--	--	--	--	
1,1-Dichloroethane	--	--	< 0.0004	0.0007 J	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
1,2,3-Trichlorobenzene	--	--	< 0.004	< 0.005	< 0.004	< 0.005	--	--	--	--	--	--	--	
1,2,4-Trichlorobenzene	--	--	< 0.004	< 0.005	< 0.004	< 0.005	--	--	--	< 0.18	< 0.041	< 0.041	< 0.038	
1,2-Dibromo-3-chloropropane (DBCP)	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	--	--	--	--	
1,2-Dibromoethane	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	--	--	--	--	
1,2-Dichlorobenzene (o-Dichlorobenzene)	--	--	< 0.0004	0.003 J	< 0.0004	< 0.0005	--	--	--	0.22 J	0.16 J	< 0.041	< 0.038	
1,2-Dichloroethane	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
1,2-Dichloropropane	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
1,3-Dichlorobenzene	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.18	< 0.041	< 0.041	< 0.038	
1,4-Dichlorobenzene	--	--	< 0.0003	0.0007 J	< 0.0003	< 0.0004	--	--	--	< 0.18	< 0.041	< 0.041	< 0.038	
2-Butanone (Methyl ethyl ketone)	--	--	0.002 J	0.012	0.0009 J	0.001 J	--	--	--	< 0.022	< 0.005	< 0.005	< 0.005	
2-Hexanone	--	--	< 0.0009	< 0.0009	< 0.0008	< 0.001	--	--	--	< 0.016	< 0.004	< 0.004	< 0.003	
4-Methyl-2-pentanone	--	--	< 0.0009	< 0.0009	< 0.0008	< 0.001	--	--	--	< 0.016	< 0.004	< 0.004	< 0.003	
Acetone	--	--	0.024	<u>0.13</u>	0.022	0.024	--	--	--	< 0.038	0.013 J	< 0.009	0.019 J	
Benzene	--	--	< 0.0004	0.002 J	< 0.0004	< 0.0005	--	--	--	< 0.003	< 0.0006	< 0.0006	< 0.0006	
Bromochloromethane	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	--	--	--	--	
Bromodichloromethane	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Bromoform	--	--	< 0.004	< 0.005	< 0.004	< 0.005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Bromomethane (Methyl bromide)	--	--	< 0.0006	< 0.0006	< 0.0006	< 0.0007	--	--	--	< 0.011	< 0.002	< 0.002	< 0.002	
Carbon disulfide	--	--	< 0.0005	0.0009 J	< 0.0005	< 0.0006	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Carbon Tetrachloride	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Chlorobenzene	--	--	< 0.0004	0.0006 J	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Chloroethane	--	--	< 0.0009	< 0.0009	< 0.0008	< 0.001	--	--	--	< 0.011	< 0.002	< 0.002	< 0.002	
Chloroform	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Chloromethane (Methyl chloride)	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	< 0.011	< 0.002	< 0.002	< 0.002	
cis-1,2-Dichloroethene	--	--	< 0.0004	0.001 J	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
cis-1,3-Dichloropropene	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Cyclohexane	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	--	--	--	--	
Dibromochloromethane	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Dichlorodifluoromethane (Freon 12)	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	--	--	--	--	
Diisopropyl ether	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Ethyl-t-butylether	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Ethylbenzene	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	0.016 J	0.002 J	< 0.001	< 0.001	
Isopropylbenzene	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	--	--	--	--	
m,p-Xylenes	--	--	< 0.0009	< 0.0009	< 0.0008	< 0.001	--	--	--	--	--	--	--	
Methyl acetate	--	--	< 0.0009	< 0.0009	< 0.0008	< 0.001	--	--	--	--	--	--	--	
Methyl-t-butyl ether	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.003	< 0.0006	< 0.0006	< 0.0006	
Methylcyclohexane	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	--	--	--	--	
Methylene chloride (Dichloromethane)	--	--	< 0.002	< 0.002	< 0.002	< 0.002	--	--	--	0.014 J	0.003 J	< 0.004 J	0.002 J	
o-Xylene	--	--	< 0.0003	< 0.0004	< 0.0003	< 0.0004	--	--	--	--	--	--	--	
Styrene	--	--	< 0.0003	< 0.0003	< 0.0003	< 0.0003	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
tert-Amyl methyl ether	--	--	< 0.0007	< 0.0007	< 0.0007	< 0.0008	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Tertiary Butyl Alcohol	--	--	< 0.013	< 0.014	< 0.013	< 0.015	--	--	--	< 0.11	< 0.025	< 0.025	< 0.023	
Tetrachloroethene	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Toluene	--	--	< 0.0005	0.001 J	< 0.0005	< 0.0006	--	--	--	0.011 J	< 0.001	0.002 J	< 0.001	
trans-1,2-Dichloroethene	--	--	< 0.0004	< 0.0005	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
trans-1,3-Dichloropropene	--	--	< 0.0003	< 0.0003	< 0.0003	< 0.0003	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Trichloroethene (Trichloroethylene)	--	--	< 0.0004	0.0007 J	< 0.0004	< 0.0005	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Trichlorofluoromethane (Freon 11)	--	--	< 0.0006	< 0.0006	< 0.0006	< 0.0007	--	--	--	--	--	--	--	
Vinyl chloride (Chloroethene)	--	--	< 0.0005	< 0.0006	< 0.0005	< 0.0006	--	--	--	< 0.005	< 0.001	< 0.001	< 0.001	
Xylene (total)	--	--	< 0.0009	< 0.0009	< 0.0008	< 0.001	--	--	--	0.18	0.007	0.002 J	0.002 J	

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	OU1DSB08 11/12/2018 OU1DSB08-S-4.00- 4-6 REG	OU1DSB08 11/12/2018 OU1DSB08-S-6.00- 6-8 REG	OU1DSB10 11/13/2018 OU1DSB10-S-10.00- 10-12 REG	OU1DSB10 11/13/2018 OU1DSB10-S-2.00- 2-4 REG	OU1DSB10 11/13/2018 OU1DSB10-S-6.00- 6-8 REG	OU1DSB10 11/13/2018 OU1DSB10-SD-6.00- 6-8 FD	OU1DSB11 11/13/2018 OU1DSB11-S-14.00- 14-16 REG	OU1DSB11 11/13/2018 OU1DSB11-S-2.00- 2-4 REG	OU1DSB11 11/13/2018 OU1DSB11-S-6.00- 6-8 REG	SWSL-74 10/31/2006 SWSL-74(7-9) 7-9 REG	SWSL-75 10/31/2006 SWSL-75(12-14.5) 12-14.5 REG	SWSL-76 10/31/2006 SWSL-76(4-12) 4-12 REG	SWSL-77 10/31/2006 SWSL-77(8-10) 8-10 REG
Semivolatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	--	--	--	--
1,4-Dioxane	< 0.11	< 0.11	< 0.11	< 0.56	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11	--	--	--	--
2,3,4,6-Tetrachlorophenol	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074	--	--	--	--
2,4,5-Trichlorophenol	< 0.022	< 0.022	< 0.022	< 0.11	< 0.023	< 0.022	< 0.021	< 0.023	< 0.022	< 0.37	< 0.082	< 0.082	< 0.075
2,4,6-Trichlorophenol	< 0.022	< 0.022	< 0.022	< 0.11	< 0.023	< 0.022	< 0.021	< 0.023	< 0.022	< 0.18	< 0.041	< 0.041	< 0.038
2,4-Dichlorophenol	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	< 0.18	< 0.041	< 0.041	< 0.038
2,4-Dimethylphenol	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	< 0.37	< 0.082	< 0.082	< 0.075
2,4-Dinitrophenol	< 0.4	< 0.41	< 0.39	< 2.1	< 0.41	< 0.41	< 0.38	< 0.42	< 0.4	< 3.7	< 0.82	< 0.82	< 0.75
2,4-Dinitrotoluene	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074	< 0.37	< 0.082	< 0.082	< 0.075
2,6-Dinitrotoluene	< 0.022	< 0.022	< 0.022	< 0.11	< 0.023	< 0.022	< 0.021	< 0.023	< 0.022	< 0.18	< 0.041	< 0.041	< 0.038
2-Chloronaphthalene	< 0.007	< 0.007	< 0.007	< 0.038	< 0.008	< 0.007	< 0.007	< 0.008	< 0.007	< 0.18	< 0.041	< 0.041	< 0.038
2-Chlorophenol (o-Chlorophenol)	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	< 0.18	< 0.041	< 0.041	< 0.038
2-Methyl-Naphthalene	< 0.011	< 0.011	< 0.011	0.79	< 0.011	< 0.011	< 0.01	0.014 J	< 0.011	37	0.47	0.043 J	0.08 J
2-Methylphenol (o-Cresol)	< 0.029	< 0.03	< 0.029	< 0.15	< 0.03	< 0.03	< 0.028	< 0.031	< 0.029	< 0.37	< 0.082	< 0.082	< 0.075
2-Nitroaniline (o-Nitroaniline)	< 0.022	< 0.022	< 0.022	< 0.11	< 0.023	< 0.022	< 0.021	< 0.023	< 0.022	< 0.18	< 0.041	< 0.041	< 0.038
2-Nitrophenol (o-Nitrophenol)	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	< 0.18	< 0.041	< 0.041	< 0.038
3,3'-Dichlorobenzidine	< 0.11	< 0.11	< 0.11	< 0.56	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11	< 0.55	< 0.12	< 0.12	< 0.11
3-Nitroaniline	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074	< 0.37	< 0.082	< 0.082	< 0.075
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	< 0.18	< 0.19	< 0.18	< 0.94	< 0.19	< 0.19	< 0.17	< 0.19	< 0.18	< 0.92	< 0.21	< 0.2	< 0.19
4-Bromophenylphenylether	< 0.022	< 0.022	< 0.022	< 0.11	< 0.023	< 0.022	< 0.021	< 0.023	< 0.022	< 0.18	< 0.041	< 0.041	< 0.038
4-Chloroaniline	< 0.037	< 0.037	< 0.036	< 0.19	< 0.038	< 0.037	< 0.035	< 0.038	< 0.037	< 0.37	< 0.082	< 0.082	< 0.075
4-Chlorophenyl phenyl ether	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	< 0.18	< 0.041	< 0.041	< 0.038
4-Methylphenol (p-Cresol)	< 0.022	< 0.022	< 0.022	< 0.11	< 0.023	< 0.022	< 0.021	< 0.023	< 0.022	< 0.37	< 0.082	< 0.082	< 0.075
4-Nitroaniline	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074	< 0.37	< 0.082	< 0.082	< 0.075
4-Nitrophenol	< 0.18	< 0.19	< 0.18	< 0.94	< 0.19	< 0.19	< 0.17	< 0.19	< 0.18	< 0.92	< 0.21	< 0.2	< 0.19
Acenaphthene	< 0.004	< 0.004	< 0.004	1.4	< 0.004	< 0.004	< 0.003	0.032	< 0.004	2.8	0.62	< 0.041	0.42
Acenaphthylene	0.004 J	< 0.004	< 0.004	0.33	< 0.004	< 0.004	< 0.003	0.041	< 0.004	< 0.18	< 0.041	0.062 J	< 0.038
Acetophenone	< 0.026	< 0.026	< 0.025	< 0.13	< 0.026	< 0.026	< 0.024	< 0.027	< 0.026	--	--	--	--
Anthracene	0.006 J	< 0.004	< 0.004	3.8	< 0.004	< 0.004	< 0.003	0.094	< 0.004	5.3	0.74	0.046 J	0.56
Atrazine	< 0.037	< 0.037	< 0.036	< 0.19	< 0.038	< 0.037	< 0.035	< 0.038	< 0.037	--	--	--	--
Benzaldehyde	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	0.076 J	< 0.074	--	--	--	--
Benzo(a)anthracene	0.019	< 0.004	< 0.004	4.4	< 0.004	< 0.004	< 0.003	0.2	< 0.004	1	0.23	0.13 J	0.44
Benzo(a)pyrene	0.018 J	< 0.007	< 0.007	3.6	< 0.008	< 0.007	< 0.007	0.2	< 0.007	0.68 J	0.21	0.12 J	0.36
Benzo(b)fluoranthene	0.03	< 0.004	< 0.004	4.1	< 0.004	< 0.004	< 0.003	0.24	< 0.004	0.3 J	0.13 J	0.22	0.38
Benzo(g,h,i)perylene	0.012 J	< 0.007	< 0.007	1.6	< 0.008	< 0.007	< 0.007	0.11	< 0.007	0.58 J	0.19 J	0.09 J	0.26
Benzo(k)fluoranthene	0.012 J	< 0.004	< 0.004	2.3	< 0.004	< 0.004	< 0.003	0.1	< 0.004	< 0.18	0.063 J	0.11 J	0.14 J
bis(2-Chloroethoxy)methane	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	< 0.18	< 0.041	< 0.041	< 0.038
bis(2-Chloroethyl) ether	< 0.026	< 0.026	< 0.025	< 0.13	< 0.026	< 0.026	< 0.024	< 0.027	< 0.026	< 0.18	< 0.041	< 0.041	< 0.038
bis(2-chloroisopropyl) ether	< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018	< 0.18	< 0.041	< 0.041	< 0.038
bis(2-Ethylhexyl)phthalate	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074	< 0.37	0.38 J	< 0.082	0.28 J
Butylbenzylphthalate	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074	< 0.37	< 0.082	< 0.082	< 0.075
Caprolactam	< 0.037	< 0.037	< 0.036	< 0.19	< 0.038	< 0.037	< 0.035	< 0.038	< 0.037	--	--	--	--
Carbazole	< 0.018	< 0.019	< 0.018	1.4	< 0.019	< 0.019	< 0.017	0.026 J	< 0.018	< 0.18	< 0.041	< 0.041	< 0.038
Chrysene	0.019	< 0.004	< 0.004	4.1	< 0.004	< 0.004	< 0.003	0.2	< 0.004	1.4	0.53	0.15 J	0.87
Di-n-butylphthalate	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074	< 0.37	< 0.082	< 0.082	< 0.075
Di-n-octylphthalate	< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076					

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	OU1DSB08 11/12/2018 OU1DSB08-S-4.00- 4-6 REG	OU1DSB08 11/12/2018 OU1DSB08-S-6.00- 6-8 REG	OU1DSB10 11/13/2018 OU1DSB10-S-10.00- 10-12 REG	OU1DSB10 11/13/2018 OU1DSB10-S-2.00- 2-4 REG	OU1DSB10 11/13/2018 OU1DSB10-S-6.00- 6-8 REG	OU1DSB10 11/13/2018 OU1DSB10-SD-6.00- 6-8 FD	OU1DSB11 11/13/2018 OU1DSB11-S-14.00- 14-16 REG	OU1DSB11 11/13/2018 OU1DSB11-S-2.00- 2-4 REG	OU1DSB11 11/13/2018 OU1DSB11-S-6.00- 6-8 REG	SWSL-74 10/31/2006 SWSL-74(7-9) 7-9 REG	SWSL-75 10/31/2006 SWSL-75(12-14.5) 12-14.5 REG	SWSL-76 10/31/2006 SWSL-76(4-12) 4-12 REG	SWSL-77 10/31/2006 SWSL-77(8-10) 8-10 REG	
Polychlorinated Biphenyls														
Aroclor 1016	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1221	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1232	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1242	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1248	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1254	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1260	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1262	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aroclor 1268	--	--	--	--	--	--	--	--	--	--	--	--	--	
Pesticides														
4,4-DDD	--	--	--	--	--	--	--	--	--	--	--	--	--	
4,4-DDE	--	--	--	--	--	--	--	--	--	--	--	--	--	
4,4-DDT	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aldrin	--	--	--	--	--	--	--	--	--	--	--	--	--	
alpha BHC	--	--	--	--	--	--	--	--	--	--	--	--	--	
alpha Chlordane	--	--	--	--	--	--	--	--	--	--	--	--	--	
beta BHC	--	--	--	--	--	--	--	--	--	--	--	--	--	
delta BHC	--	--	--	--	--	--	--	--	--	--	--	--	--	
DIELDRIN	--	--	--	--	--	--	--	--	--	--	--	--	--	
Endosulfan I	--	--	--	--	--	--	--	--	--	--	--	--	--	
Endosulfan II	--	--	--	--	--	--	--	--	--	--	--	--	--	
ENDOSULFAN SULFATE	--	--	--	--	--	--	--	--	--	--	--	--	--	
ENDRIN	--	--	--	--	--	--	--	--	--	--	--	--	--	
ENDRIN ALDEHYDE	--	--	--	--	--	--	--	--	--	--	--	--	--	
ENDRIN KETONE	--	--	--	--	--	--	--	--	--	--	--	--	--	
gamma BHC (Lindane)	--	--	--	--	--	--	--	--	--	--	--	--	--	
gamma Chlordane	--	--	--	--	--	--	--	--	--	--	--	--	--	
HEPTACHLOR	--	--	--	--	--	--	--	--	--	--	--	--	--	
HEPTACHLOR EPOXIDE	--	--	--	--	--	--	--	--	--	--	--	--	--	
METHOXYCHLOR	--	--	--	--	--	--	--	--	--	--	--	--	--	
TOXAPHENE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals														
Aluminum	15,200	13,300	12,600	14,700	11,700	13,000	9,690	14,300	11,100	11,300	14,700	20,000	14,700	
Antimony	< 0.116	< 0.128	0.147 J	0.236 J	0.129 J	< 0.122	0.168 J	1.51	< 0.12	< 1.00	< 1.06	< 1.06	< 0.978	
Arsenic	5.36	5.81	6.5	25.6	5.57	5.44	5.11	35.4	5.35	5.3	7.14	14.5	5.3	
Barium	43.2	45.5	43.1	64.6	39.5	37.1	37.6	47.2	27.5	32.5	38	64.4	38.5	
Beryllium	0.649	0.676	0.626	0.723	0.59	0.597	0.448	0.723	0.618	0.657	0.692	0.694	0.693	
Cadmium	0.113 J	0.127 J	0.199	0.378	0.159 J	0.141 J	0.0847 J	0.206	0.0986 J	< 0.0721	< 0.0762	< 0.0765	< 0.0704	
Calcium	944	1,000	8,400	7,440	1,740	1,450	20,800	6,110	1,450	1,190	996	720	1,750	
Chromium	14.4	16.9	23.9	16.5	15.9	15.1	13.4	21.9	10.6	11.4	15.6	18.3	17.9	
Cobalt	10.5	10.5	11.4	7.58	10.3	9.82	8.32	9.6	10.6	8.9	10.4	12	12.5	
Copper	24	25.8	27.3	22	23.6	23.9	18.5	28.4	17.5	21.6	24.6	27	27.3	
Iron	25,800	26,300	25,600	20,500	23,600	25,500	21,500	24,000	22,900	22,700	26,700	30,000	29,000	
Lead	12.5	12.1	10.8	50.7	10.3	11.2	8.5	138	10.4	9.13	11.2	17.9	12.2	
Magnesium	4,850	4,950	5,680	19,700	4,870	5,120	9,570	11,400	4,430	4,420	5,310	5,760	5,930	
Manganese	477	644	675	531	541	548	482	528	511	215	328	808	377	
Nickel	21.4	23.1	25.4	13.8	22.7	24.1	18.7	19	20.4	16	20.3	23.8	25.4	
Potassium	1,770	1,660	1,680	1,810	1,360	1,690	1,270	1,420	1,170	1,240	1,440	1,260	1,920	
Selenium	< 0.145	0.114 J	0.193 J	0.216 J	< 0.109	< 0.124	0.148 J	0.297 J	< 0.105	< 1.09	1.24 J	< 1.15	< 1.06	
Silver	< 0.045	< 0.0303	0.0394 J	< 0.0408	< 0.0338	< 0.0386	0.0297 J	< 0.0372	< 0.0327	< 0.189	< 0.199	< 0.200	< 0.184	
Sodium	< 73.8	112 J	178	< 91.4	233	235	68.5 J	< 84.7	83.3 J	58.1 J	83.9 J	44.2 J	47.9 J	
Thallium	0.116	0.0878	0.104	0.127	0.0854	0.103	0.0437 J	0.0967	0.0691 J	< 1.48	< 1.56	< 1.57	< 1.44	
Vanadium	18.5	17.5	17.1	21.8	17.8	16.1	15.1	20.4	14.3	15.5	19.3	22.9	19.7	
Zinc	69.1	79.2	91.1	68.1	86.2	83.8	56.3	75.4	71.6	66	70	74.2	76.4	
Mercury	< 0.0346	< 0.0338	< 0.0335	0.354	< 0.0344	< 0.0344	< 0.0313	0.205	0.0539 J	0.0345 J	< 0.0120	0.0304 J	0.0225 J	

Notes:
All values are provided in milligrams per kilogram (mr
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection
D1: Indicates for dual column analyses that the resu
J : Result detected between the reporting limit and t
Z: Laboratory defined - see analysis report
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO

Location ID Sample Date				OU1DSB03 11/16/2018	OU1DSB04 11/15/2018	OU1DSB05 11/15/2018	OU1DSB06 11/15/2018	OU1DSB08 11/15/2018	OU1DSB10 11/15/2018	OU1DSB11 11/16/2018	SWMW-63 1/10/2007	SWMW-63 10/16/2008	SWMW-63 6/11/2013	SWMW-128 3/24/2009
Field Sample ID	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OU1DSB03-W-6.00-181116	OU1DSB04-W-6.00-181115	OU1DSB05-W-6.00-181115	OU1DSB06-W-6.00-181115	OU1DSB08-W-6.00-181115	OU1DSB10-W-3.00-181115	OU1DSB11-W-6.00-181116	SWMW63011007	SWMW-63(10-16-08)	SWMW-63(061113)	SWMW-128(3-24-09)
Sample Purpose Parameter Name				REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1-Trichloroethane	71-55-6	5	--	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	87-61-6	--	7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1	< 1	< 0.5	< 1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 0.5	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1	< 1	< 1	< 1
1,2-Dichloropropane	78-87-5	1	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	541-73-1	3	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 0.5	< 1
1,4-Dichlorobenzene	106-46-7	3	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 0.5	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 3	< 3	< 3	< 3
2-Hexanone	591-78-6	50	--	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 3	< 3	< 3	< 3
4-Methyl-2-pentanone	108-10-1	--	6300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 3	< 3
Acetone	67-64-1	50	--	< 0.7	< 0.7	< 0.7	< 0.7	1 J	1 J	< 0.7	< 6	< 6	< 6	42
Benzene	71-43-2	1	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	74-97-5	--	83	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 0.2	< 0.2	< 0.2	0.3 J	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Carbon Tetrachloride	56-23-5	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 0.2	< 0.2	< 0.2	2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
Ethylbenzene	100-41-4	5	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.8	< 0.8	< 0.8	< 0.8
Isopropylbenzene	98-82-8	--	450	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	--
Methyl acetate	79-20-9	--	20000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
Methyl-t-butyl ether	1634-04-4	10	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5
Methylcyclohexane	108-87-2	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 2	< 2	< 2	< 2
o-Xylene	95-47-6	--	190	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	--	--	--	--
Styrene	100-42-5	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
tert-Amyl methyl ether	994-05-8	--	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Tertiary Butyl Alcohol	75-65-0	--	--	< 12	< 12	< 12	< 12	< 12	< 12	< 12	< 10	< 10	< 10	< 10
Tetrachloroethene	127-18-4	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.8	< 0.8	< 0.8	< 0.8
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

Location ID Sample Date				OU1DSB03 11/16/2018	OU1DSB04 11/15/2018	OU1DSB05 11/15/2018	OU1DSB06 11/15/2018	OU1DSB08 11/15/2018	OU1DSB10 11/15/2018	OU1DSB11 11/16/2018	SWMW-63 1/10/2007	SWMW-63 10/16/2008	SWMW-63 6/11/2013	SWMW-128 3/24/2009
Field Sample ID	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OU1DSB03-W-6.00-181116	OU1DSB04-W-6.00-181115	OU1DSB05-W-6.00-181115	OU1DSB06-W-6.00-181115	OU1DSB08-W-6.00-181115	OU1DSB10-W-3.00-181115	OU1DSB11-W-6.00-181116	SWMW63011007	SWMW-63(10-16-08)	SWMW-63(061113)	SWMW-128(3-24-09)
Sample Purpose Parameter Name				REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	< 4	< 4	< 4	< 4	< 4	< 4	< 4	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 0.5	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 15	< 14	< 14	< 14	< 14	< 15	< 14	< 20	< 20	< 10	< 19
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 2	< 2	< 0.4	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
2-Methyl-Naphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 0.5	< 1
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 0.5	< 1
3,3'-Dichlorobenzidine	91-94-1	5	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 0.5	< 1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 8	< 8	< 8	< 8	< 8	< 9	< 8	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
4-Chloroaniline	106-47-8	5	--	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 1	< 1	< 0.5	< 1
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2	< 0.5	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2	< 0.5	< 2
4-Nitroaniline	100-01-6	5	--	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 1	< 0.9	< 1	< 1	< 0.5	< 1
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 10	< 10	< 10
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Acetophenone	98-86-2	--	1900	< 4	< 4	< 4	< 4	< 4	< 4	< 4	--	--	--	--
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Atrazine	1912-24-9	--	0.3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	--	--	--
Benzaldehyde	100-52-7	--	19	< 3	< 3	< 3	< 3	< 3	< 3	< 3	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 7
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	< 5	< 5	< 5	< 5	< 5	< 5	< 5	--	--	--	--
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Di-n-butylphthalate	84-74-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	117-84-0	50	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2
Dibenz(a,h)anthracene	53-70-3	--	0.025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Dibenzofuran	132-64-9	--	7.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
Diethylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	< 3	< 3	< 3	< 3	< 3	< 3	< 3	--	--	--	--
Fluoranthene	206-44-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1 J	< 1	< 0.1	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Hexachlorobutadiene	87-68-3	0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
N-Nitrosodi-n-propylamine	621-64-7	--	0.011	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.8	< 0.7	< 1	< 1	< 0.5	< 1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	50	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.8	< 0.7	< 2	< 2	< 0.5	< 2
Naphthalene	91-20-3	10	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Nitrobenzene	98-95-3	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 3	< 1	< 3
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 1
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1
Pyrene	129-00-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	4 J	< 1	< 0.1	< 1

Location ID Sample Date				OU1DSB03 11/16/2018	OU1DSB04 11/15/2018	OU1DSB05 11/15/2018	OU1DSB06 11/15/2018	OU1DSB08 11/15/2018	OU1DSB10 11/15/2018	OU1DSB11 11/16/2018	SWMW-63 1/10/2007	SWMW-63 10/16/2008	SWMW-63 6/11/2013	SWMW-128 3/24/2009
Field Sample ID	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OU1DSB03-W-6.00-181116	OU1DSB04-W-6.00-181115	OU1DSB05-W-6.00-181115	OU1DSB06-W-6.00-181115	OU1DSB08-W-6.00-181115	OU1DSB10-W-3.00-181115	OU1DSB11-W-6.00-181116	SWMW63011007	SWMW-63(10-16-08)	SWMW-63(061113)	SWMW-128(3-24-09)
Sample Purpose Parameter Name				REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Metals														
Aluminum	7429-90-5	100	--	305,000	2,310	1,920	3,530	133,000	227,000	53,500	18,800	210	109 J	2,830
Aluminum (Dissolved)	7429-90-5	100	--	< 19.7	< 19.7	< 19.7	< 19.7	< 19.7	< 19.7	< 19.7	--	--	--	--
Antimony	7440-36-0	3	--	0.85 J	< 0.41 K2	< 0.41	< 0.41	1 J	1 J	1.8 J	< 9.7	< 9.7	< 3.5	< 9.7
Antimony (Dissolved)	7440-36-0	3	--	< 0.41 K2	< 0.41 K2	< 0.41	< 0.41	< 0.41	< 0.41	0.88 J	--	--	--	--
Arsenic	7440-38-2	25	--	169	2 J	2.5	2.4	77.7	111	38.1	< 10	< 20 J	< 6.8	< 10.0
Arsenic (Dissolved)	7440-38-2	25	--	1.9 J	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	--	--	--	--
Barium	7440-39-3	1,000	--	1,630	37.2	45.2	36.5	439	775	262	104	41.1	15	53.1
Barium (Dissolved)	7440-39-3	1,000	--	33.4	28.1	38.6	20	19.6	14.8	11.8	--	--	--	--
Beryllium	7440-41-7	3	--	16.8	0.12 J	< 0.091	0.19 J	7.9	13.3	3.8	1.1 J	< 0.90	< 0.67	< 0.90
Beryllium (Dissolved)	7440-41-7	3	--	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	--	--	--	--
Cadmium	7440-43-9	5	--	4.3	< 0.15	< 0.15	< 0.15	2.2	2.7	0.82 J	< 0.91	< 2.0	< 0.36	< 2.0
Cadmium (Dissolved)	7440-43-9	5	--	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	--	--	--	--
Calcium	7440-70-2	--	--	654,000	62,500	79,600	63,400	77,900	120,000	48,900	30,300	49,600	15,700	78,600
Calcium (Dissolved)	7440-70-2	--	--	66,200	62,000	80,800	62,700	55,300	64,700	47,700	--	--	--	--
Chromium	7440-47-3	50	--	533	3 J	3.1 J	4.2	141	267	62.8	26.2	< 3.0	< 1.1	3.4 J
Chromium (Dissolved)	7440-47-3	50	--	< 0.7	< 0.7	< 0.7	< 0.7	0.94 J	< 0.7	0.93 J	--	--	--	--
Cobalt	7440-48-4	5	--	300	1.1	2	3.2	133	194	52.2	16.1	< 5 J	< 0.66	2.5 J
Cobalt (Dissolved)	7440-48-4	5	--	0.34 J	< 0.16	0.85 J	< 0.16	0.67 J	1.6	0.29 J	--	--	--	--
Copper	7440-50-8	200	--	819	< 9.9	< 9.9	< 9.9	373	585	149	47.1	< 10 J	< 2.1	6.7 J
Copper (Dissolved)	7440-50-8	200	--	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	--	--	--	--
Iron	7439-89-6	300	--	674,000	4,100	2,810	6,700	308,000	478,000	107,000	33,500	4,760	295	3,720
Iron (Dissolved)	7439-89-6	300	--	< 22.8	< 22.8	< 22.8	< 22.8	< 22.8	< 22.8	< 22.8	--	--	--	--
Lead	7439-92-1	25	--	455	2 J	3.1	3.9	161	204	215	21	< 6.9	< 5.1	< 6.9
Lead (Dissolved)	7439-92-1	25	--	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	--	--	--	--
Magnesium	7439-95-4	35,000	--	255,000	14,400	16,600	15,000	53,800	93,900	28,000	14,800	10,300	4,190	21,500
Magnesium (Dissolved)	7439-95-4	35,000	--	19,700	14,300	16,700	14,200	12,100	16,100	14,100	--	--	--	--
Manganese	7439-96-5	300	--	29,500	63.9	1,050	323	14,200	14,300	4,130	2,700	3,690	15.8	713
Manganese (Dissolved)	7439-96-5	300	--	603	17.7	1,030	41.7	380	967	156	--	--	--	--
Nickel	7440-02-0	100	--	580	2.7 J	3.6 J	5.7	211	368	87.2	30	< 5.6	< 1.1	6.2 J
Nickel (Dissolved)	7440-02-0	100	--	< 0.6	< 0.6	1.5 J	< 0.6	2 J	2.4 J	1.6 J	--	--	--	--
Potassium	7440-09-7	--	--	20,200	1,830	2,190	2,740	13,800	19,000	7,030	8,010	11,700	4,890	2,320
Potassium (Dissolved)	7440-09-7	--	--	1,150	1,400	1,810	1,980	2,540	1,920	1,150	--	--	--	--
Selenium	7782-49-2	10	--	2.5	< 0.65	0.76 J	< 0.65	0.84 J	1.2 J	< 0.65	< 9.4	< 10.7	< 7.5	< 10.7
Selenium (Dissolved)	7782-49-2	10	--	< 0.65	< 0.65	0.77 J	< 0.65	< 0.65	< 0.65	< 0.65	--	--	--	--
Silver	7440-22-4	50	--	1.1	< 0.17 K2	< 0.17 K2	< 0.17	0.22 J	0.18 J	< 0.17	< 1.6	< 2.2	< 1.2	< 2.2
Silver (Dissolved)	7440-22-4	50	--	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--	--	--	--
Sodium	7440-23-5	20,000	--	37,600	174,000	404,000	257,000	266,000	291,000	82,700	16,400	29,300	20,200	109,000
Sodium (Dissolved)	7440-23-5	20,000	--	32,700	163,000	412,000	270,000	254,000	270,000	94,700	--	--	--	--
Thallium	7440-28-0	0.5	--	1.5	< 0.11	< 0.11	< 0.11	0.91	1.2	0.41 J	< 13.5	< 14.0	< 5.7	< 14.0
Thallium (Dissolved)	7440-28-0	0.5	--	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	--	--	--	--
Vanadium	7440-62-2	--	86	584	3.6	2.9	4.5	147	246	60.2	24.7	< 2.5	< 1.3	3.5 J
Vanadium (Dissolved)	7440-62-2	--	86	0.51 J	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	--	--	--	--
Zinc	7440-66-6	2000	--	1,630	10.9 J	8.2 J	23.2	921	1,580	369	106	13.9 J	7.1 J	17.3 J
Zinc (Dissolved)	7440-66-6	2000	--	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	< 6.2	--	--	--	--
Mercury	7439-97-6	0.7	--	2.4	< 0.05	< 0.05	< 0.05	0.55	0.79	0.37	< 0.056	< 0.056	< 0.070	< 0.056
Mercury (Dissolved)	7439-97-6	0.7	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date				SWMW-128 5/25/2010	SWMW-128 10/18/2012	SWMW-128 6/11/2013	SWMW-129 3/24/2009	SWMW-129 5/25/2010	SWMW-129 10/18/2012	SWMW-129 6/11/2013
Field Sample ID	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	SWMW-128(5-25-10)	SWMW-128(101812)	SWMW-128(061113)	SWMW-129(3-24-09)	SWMW-129(5-25-10)	SWMW-129(101812)	SWMW-129(061113)
Sample Purpose Parameter Name				REG	REG	REG	REG	REG	REG	REG
Volatile Organic Compounds										
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3
2-Hexanone	591-78-6	50	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-Methyl-2-pentanone	108-10-1	--	6300	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Acetone	67-64-1	50	--	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Amyl methyl ether	994-05-8	--	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Tertiary Butyl Alcohol	75-65-0	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

Location ID Sample Date				SWMW-128 5/25/2010	SWMW-128 10/18/2012	SWMW-128 6/11/2013	SWMW-129 3/24/2009	SWMW-129 5/25/2010	SWMW-129 10/18/2012	SWMW-129 6/11/2013
Field Sample ID	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	SWMW-128(5-25-10)	SWMW-128(101812)	SWMW-128(061113)	SWMW-129(3-24-09)	SWMW-129(5-25-10)	SWMW-129(101812)	SWMW-129(061113)
Sample Purpose Parameter Name				REG	REG	REG	REG	REG	REG	REG
Semivolatile Organic Compounds										
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 0.5	< 0.5	< 3	< 3	< 0.5	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 21	< 9	< 9	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 0.9	< 0.9	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 2	< 0.4	< 0.4	< 2	< 2	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2-Methyl-Naphthalene	91-57-6	--	36	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 0.5	< 0.5	< 2	< 2	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 0.5	< 0.5	< 2	< 2	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 9	< 9	< 10
Acenaphthene	83-32-9	20	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Acenaphthylene	208-96-8	--	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 5 J	< 2	< 2	< 8	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Di-n-butylphthalate	84-74-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	117-84-0	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibenz(a,h)anthracene	53-70-3	--	0.025	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Dibenzofuran	132-64-9	--	7.9	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
Diethylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Fluorene	86-73-7	50	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 0.9	< 0.9	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Isophorone	78-59-1	50	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	621-64-7	--	0.011	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	50	--	< 2	< 0.5	< 0.5	< 2	< 2	< 0.5	< 0.5
Naphthalene	91-20-3	10	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Nitrobenzene	98-95-3	0.4	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 3	< 1	< 1	< 3	< 3	< 0.9	< 1
Phenanthrene	85-01-8	50	--	< 1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	< 0.1
Phenol	108-95-2	1	--	< 1	< 0.5	< 0.5	< 1	< 0.9	< 0.5	< 0.5
Pyrene	129-00-0	50	--	< 1	0.1 J	< 0.1	< 1	< 0.9	0.1 J	< 0.1

Location ID Sample Date				SWMW-128 5/25/2010	SWMW-128 10/18/2012	SWMW-128 6/11/2013	SWMW-129 3/24/2009	SWMW-129 5/25/2010	SWMW-129 10/18/2012	SWMW-129 6/11/2013
Field Sample ID	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	SWMW-128(5-25-10)	SWMW-128(101812)	SWMW-128(061113)	SWMW-129(3-24-09)	SWMW-129(5-25-10)	SWMW-129(101812)	SWMW-129(061113)
Sample Purpose Parameter Name				REG	REG	REG	REG	REG	REG	REG
Metals										
Aluminum	7429-90-5	100	--	4,820	25,200	244	4,370	785	2,690	367
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	< 9.7	< 3.5	< 3.5	< 9.7	< 9.7	< 3.5	< 3.5
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	< 7.2	18.2 J	< 6.8	< 10.0	< 7.2	< 6.8	< 6.8
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	66.2	176	30.5	55.9	43.6	30.6	24.3
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	< 1.4	1.1 J	< 0.67	< 0.90	< 1.4	< 0.67	< 0.67
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	< 2.0	0.67 J	< 0.36	< 2.0	< 2.0	0.43 J	< 0.36
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	77,600	60,100	77,000	50,600	63,700	31,100	38,800
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	6.8 J	34.7	1.4 J	4.4 J	< 3.4	3.2 J	< 1.1
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	3.8 J	19.6	< 0.66	6.1	< 2.1	3.5 J	0.75 J
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	12	65.5	2.6 J	10.5	< 2.7	5.8 J	< 2.1
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	6,800	44,900	329	6,300	1,430	4,960	639
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	< 6.9	26.3	< 5.1	< 6.9	< 6.9	< 5.1	< 5.1
Lead (Dissolved)	7439-92-1	25	--	--	--	--	--	--	--	--
Magnesium	7439-95-4	35,000	--	20,200	25,000	23,200	12,600	16,000	8,350	9,630
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	1,750	1,930	13.5	1,660	762	774	489
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	6.2 J	37.6	< 1.1	7.1 J	2.5 J	5.4 J	1.8 J
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	1,820	4,780	714	13,600	13,500	11,000	11,000
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	< 8.9	< 7.5	< 7.5	< 10.7	< 8.9	< 7.5	< 7.5
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	< 2.3	< 1.2	< 1.2	< 2.2	< 2.3	< 1.2	< 1.2
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	39,600	105,000	89,900	65,300	117,000	34,400	88,800
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	< 14.0	< 5.7	< 5.7	< 14.0	< 14.0	< 5.7	< 5.7
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	5.6	34.2	< 1.3	6.8	< 2.5	4.5 J	< 1.3
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	33.8	137	4.8 J	23	13.3 J	15.0 J	2.7 J
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	< 0.056	< 0.070	< 0.070	< 0.056	< 0.056	< 0.070	< 0.070
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and
Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EESB01 5/23/2017 170523 0-0.17 REG	OU1EESB02 5/23/2017 170523 0-0.17 REG	OU1EESB03 5/24/2017 170524 0-0.17 REG	OU1EESB04 6/1/2017 170601 0-0.17 REG	OU1EESB05 6/1/2017 170601 0-0.17 REG	OU1EESB06 5/31/2017 170531 0-0.17 REG	OU1EESB07 5/31/2017 170531 0-0.17 REG	OU1EESB08 5/23/2017 170523 0-0.17 REG	OU1EESB09 5/23/2017 170523 0-0.17 REG	OU1EESB10 5/23/2017 170523 0-0.17 REG	OU1EESB11 5/24/2017 170524 0-0.17 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.13	< 0.17	< 0.17	< 0.14	< 0.17	< 0.16	< 0.13	< 0.11	< 0.62	< 0.18
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.078	< 0.086	< 0.12	< 0.11	< 0.095	< 0.11	< 0.11	< 0.089	< 0.075	< 0.41	< 0.12
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.35	< 0.39	< 0.52	< 0.5	< 0.43	< 0.5	< 0.48	< 0.4	< 0.34	< 1.8	< 0.54
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.078	< 0.086	< 0.12	< 0.11	< 0.095	< 0.11	< 0.11	< 0.089	< 0.075	< 0.41	< 0.12
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.009	< 0.012	< 0.011	< 0.01	< 0.011	< 0.011	< 0.009	< 0.008	< 0.041	< 0.012
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.01 J	0.012 J	< 0.006	0.006 J	< 0.005	< 0.006	0.011 J	0.005 J	0.011 J	< 0.02	< 0.006
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.13	< 0.17	< 0.17	< 0.14	< 0.17	< 0.16	< 0.13	< 0.11	< 0.62	< 0.18
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.078	< 0.086	< 0.12	< 0.11	< 0.095	< 0.11	< 0.11	< 0.089	< 0.075	< 0.41	< 0.12
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.21	< 0.29	< 0.28	< 0.24	< 0.28	< 0.27	< 0.22	< 0.19	< 1	< 0.3
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.039	< 0.043	< 0.058	< 0.056	< 0.047	< 0.055	< 0.053	< 0.045	< 0.038	< 0.21	< 0.06
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.02	< 0.021	0.046 J	< 0.028	0.028 J	< 0.028	0.029 J	< 0.022	< 0.019	< 0.1	0.075
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.078	< 0.086	< 0.12	< 0.11	< 0.095	< 0.11	< 0.11	< 0.089	< 0.075	< 0.41	< 0.12
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.21	< 0.29	< 0.28	< 0.24	< 0.28	< 0.27	< 0.22	< 0.19	< 1	< 0.3
Acenaphthene	83-32-9	98	20	20	100	100	0.026	0.023	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	< 0.004	0.095	< 0.02	< 0.006
Acenaphthylene	208-96-8	107	--	100	100	100	0.063	0.13	< 0.006	< 0.006	0.006 J	0.01 J	0.01 J	0.012 J	0.008 J	< 0.02	< 0.006
Acetophenone	98-86-2	--	--	--	--	--	< 0.020	< 0.021	< 0.029	0.029 J	< 0.024	0.049 J	< 0.027	< 0.022	< 0.019	< 0.10	0.15
Anthracene	120-12-7	1000	--	100	100	100	0.23	0.17	< 0.006	0.011 J	0.006 J	< 0.006	0.013 J	0.013 J	0.15	< 0.02	0.024 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.039	< 0.043	< 0.058	< 0.056	< 0.047	< 0.055	< 0.053	< 0.045	< 0.038	< 0.21	< 0.060
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.078	< 0.086	0.31	0.18 J	< 0.095	0.3	0.26 J	0.11 J	< 0.075	< 0.41	0.84
Benzo(a)anthracene	56-55-3	1	--	1	1	1	1.7	0.56	0.019 J	0.018 J	0.011 J	0.025 J	0.029	0.043	0.49	< 0.02	0.069
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	2	0.53	0.022 J	0.025 J	0.015 J	0.034	0.031	0.056	0.55	0.024 J	0.089
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	3.5	0.82	< 0.006	0.042	0.023 J	0.054	0.061	0.086	0.81	0.037 J	0.18
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	1.6	0.33	0.018 J	0.021 J	0.01 J	0.027 J	0.03	0.04	0.33	0.027 J	0.073
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	1.2	0.34	0.013 J	0.015 J	0.009 J	0.027 J	0.024 J	0.029	0.29	< 0.02	0.064
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.078	< 0.086	< 0.12	< 0.11	< 0.095	< 0.11	< 0.11	< 0.089</			

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EESB01 5/23/2017 170523 0-0.17 REG	OU1EESB02 5/23/2017 170523 0-0.17 REG	OU1EESB03 5/24/2017 170524 0-0.17 REG	OU1EESB04 6/1/2017 170601 0-0.17 REG	OU1EESB05 6/1/2017 170601 0-0.17 REG	OU1EESB06 5/31/2017 170531 0-0.17 REG	OU1EESB07 5/31/2017 170531 0-0.17 REG	OU1EESB08 5/23/2017 170523 0-0.17 REG	OU1EESB09 5/23/2017 170523 0-0.17 REG	OU1EESB10 5/24/2017 170523 0-0.17 REG	OU1EESB11 5/24/2017 170524 0-0.17 REG	
Polychlorinated Biphenyls																		
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	< 0.0063	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	< 0.008	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	< 0.014	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	< 0.0057	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	< 0.0057	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	0.014 J	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	< 0.0085	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	< 0.0057	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	< 0.0057	--	--	--	--	--	--	--	--	--
Pesticides																		
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	< 0.00057	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	< 0.00057	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	< 0.00061	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	< 0.00029	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	< 0.00029	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	< 0.00029	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	< 0.00052	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	0.002 P	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	0.0015 JP	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	< 0.00038	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	< 0.00057	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	< 0.00057	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	< 0.00057	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	< 0.00057	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	< 0.001	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	< 0.00029	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	0.00056 JP	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	< 0.00029	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	< 0.00029	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	< 0.0029	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	< 0.024	--	--	--	--	--	--	--	--	--
Metals																		
Aluminum	7429-90-5	--	10000	--	--	--	17,200	17,100	12,600	18,400	17,200	19,700	14,800	17,400	9,030	14,600	17,500	
Antimony	7440-36-0	--	12	--	--	--	0.205 J	0.246 J	0.217 J	0.275 J	0.201 J	0.200 J	0.309 J	0.341 J	0.142 J	0.579	0.697 J	
Arsenic	7440-38-2	16	13	13	16	16	29.1	11.6	4.76	7.72	5.28	6.96	5.6	84.4	5.72	6.51	7	
Barium	7440-39-3	820	433	350	350	400	60.7	71.8	65	104	76.3	118	60.7	132	31.4	41.5	136	
Beryllium	7440-41-7	47	10	7.2	14	72	0.794	1.05	0.476	0.9	0.695	0.946	0.49	0.857	0.366	0.584	1.06	
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.152 J	0.296	0.553	0.301	0.0713 J	0.541	0.134 J	0.495	0.0799 J	0.0708 J	0.475	
Calcium	7440-70-2	--	10000	--	--	--	3,070	1,650	3,930	3,070	964	3,210	1,560	3,950	8,090	501	5,000	
Chromium	7440-47-3	--	--	30	36	180	18.9	23.1	13	19.3	16.8	20.7	15.8	18.1	9.65	14.4	16.1	
Cobalt	7440-48-4	--	20	--	30	--	11.2	9.14	6.61	12.7	5.67	7.55	4.65	9.83	6.57	8.26	8.1	
Copper	7440-50-8	1720	50	50	270	270	22.6	21.4	15.7	31.4	12.5	20	14.6	24.3	14.2	16.6	21.1	
Iron	7439-89-6	--	--	--	2000	--	26,500	25,200	16,200	30,000	16,000	21,500	14,600	24,400	17,400	21,400	18,300	
Lead	7439-92-1	450	63	63	400	400	36.5	30.2	15.3	30.2	23.7	39.6	51.7	35.4	15.3	18.2	54.4	
Magnesium	7439-95-4	--	--	--	--	--	6,070	4,690	3,320	5,490	3,220	4,330	2,860	5,150	8,060	3,790	3,540	
Manganese	7439-96-5	2000	1600	1600	2000	2000	729	602	446	1,030	246	800	219	1,140	443	520	2,140	
Nickel	7440-02-0	130	30	30	140	310	21.2	18.7	14.6	29.5	15.8	21.1	14.5	26.3	12.9	17.1	22.7	
Potassium	7440-09-7	--	--	--	--	--	1,760	2,130	1,730	1,530	1,040	2,340	1,780	2,010	1,080	1,360	1,550	
Selenium	7782-49-2	4	3.9	3.9	36	180	0.289 J	0.355 J	0.217 J	0.372 J	0.379 J	0.608 J	0.664 J	0.490 J	0.105 J	0.285 J	0.823 J	
Silver	7440-22-4	8.3	2	2	36	180	0.0547 J	0.104 J	0.0615 J	0.0864 J	0.109 J	0.181 J	0.258 J	0.176 J	0.0395 J	0.0523 J	0.224 J	
Sodium	7440-23-5	--	--	--	--	--	48.6 J	51.0 J	56.3 J	40.4 J	54.9 J	64.5 J	60.3 J	53.0 J	42.3 J	32.1 J	66.0 J	
Thallium	7440-28-0	--	5	--	--	--	0.105 J	0.138 J	0.123 J	0.126 J	0.204 J	0.172 J	0.176 J	0.164 J	0.0692 J	0.109 J	0.200 J	
Vanadium	7440-62-2	--	39	--	100	--	26.1	30.4	22.6	30.5	26	36.2	31.9	34.2	13.7	27.6	48	
Zinc	7440-66-6	2480	109	109	2200	10000	84	94.8	63.7	105	71.1	101	68.5	120	56.7	59.5	89.8	
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.142	0.101 J	0.22	0.0922 J	0.0689 J	0.106 J	0.115 J	0.139	0.0280 J	0.0624 J	0.286	
		U	I	B	BI	Ye												

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Resources
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	375-6.8(b) & CP 51 Residential- Restricted	OU1EESB12 5/24/2017 170524 0-0.17 REG	OU1EESB13 6/1/2017 170601 0-0.17 REG	OU1EESB14 6/1/2017 170601 0-0.17 REG	OU1EESB15 6/1/2017 170601 0-0.17 REG	OU1EESB16 5/31/2017 170531 0-0.17 REG	OU1EESB17 5/31/2017 170531 0-0.17 REG	OU1EESB18 5/23/2017 170523 0-0.17 REG	OU1EESB19 5/23/2017 170523 0-0.17 REG	OU1EESB20 5/24/2017 170524 0-0.17 REG	OU1EESB21 5/25/2017 170525 0-0.17 REG	OU1EESB22 5/30/2017 170530 0-0.17 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.18	< 0.15	< 0.17	< 0.15	< 0.15	< 0.15	< 0.13	< 0.12	< 0.61	< 0.75	< 0.20
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.12	< 0.10	< 0.11	< 0.098	< 0.10	< 0.10	< 0.089	< 0.083	< 0.41	< 0.50	< 0.13
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.54	< 0.45	< 0.52	< 0.44	< 0.46	< 0.45	< 0.4	< 0.37	< 1.8	< 2.3	< 0.6
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.012	< 0.01	< 0.011	< 0.01	< 0.01	< 0.01	< 0.009	< 0.008	< 0.041	< 0.05	< 0.013
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.011 J	0.006 J	0.012 J	0.008 J	0.007 J	0.009 J	0.009 J	< 0.004	0.064 J	< 0.025	< 0.007
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.18	< 0.15	< 0.17	< 0.15	< 0.15	< 0.15	< 0.13	< 0.12	< 0.61	< 0.75	< 0.2
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.3	< 0.25	< 0.29	< 0.25	< 0.26	< 0.25	< 0.22	< 0.21	< 1	< 1.3	< 0.34
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.06	< 0.051	< 0.057	< 0.049	< 0.052	< 0.05	< 0.044	< 0.042	< 0.2	< 0.25	< 0.067
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	0.029 J	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.3	< 0.25	< 0.29	< 0.25	< 0.26	< 0.25	< 0.22	< 0.21	< 1	< 1.3	< 0.34
Acenaphthene	83-32-9	98	20	20	100	100	< 0.006	< 0.005	< 0.006	0.005 J	< 0.005	0.006 J	< 0.004	< 0.004	0.56	< 0.025	< 0.007
Acenaphthylene	208-96-8	107	--	100	100	100	0.02 J	0.012 J	0.034	0.024 J	0.009 J	0.014 J	0.018 J	0.011 J	0.1	< 0.025	< 0.007
Acetophenone	98-86-2	--	--	--	--	--	< 0.030	< 0.025	0.045 J	< 0.025	0.041 J	0.052	0.026 J	< 0.021	< 0.10	< 0.13	< 0.034
Anthracene	120-12-7	1000	--	100	100	100	0.015 J	0.011 J	0.019 J	0.017 J	0.017 J	0.02 J	0.009 J	0.005 J	1.3	< 0.025	0.012 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.060	< 0.051	< 0.057	< 0.049	< 0.052	< 0.050	< 0.044	< 0.042	< 0.20	< 0.25	< 0.067
Benzaldehyde	100-52-7	--	--	--	--	--	0.22 J	0.16 J	0.33	0.13 J	0.3	0.35	0.17 J	0.095 J	< 0.41	< 0.50	0.16 J
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.04	0.033	0.052	0.038	0.028	0.043	0.026	0.018 J	6.1	< 0.025	0.062
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.069	0.041	0.061	0.057	0.035	0.049	0.033	0.023	7.3	< 0.025	0.081
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.093	0.07	0.11	0.07	0.061	0.093	0.062	0.038	9.8	0.047 J	0.11
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.048	0.032	0.053	0.037	0.027	0.041	0.028	0.019 J	5	< 0.025	< 0.007
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.042	0.029	0.046	0.03	0.022 J	0.034	< 0.004	0.016 J	4.5	< 0.025	0.045
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	375-6.8(b) & CP 51 Residential- Restricted	OU1EESB12 5/24/2017 170524 0-0.17 REG	OU1EESB13 6/1/2017 170601 0-0.17 REG	OU1EESB14 6/1/2017 170601 0-0.17 REG	OU1EESB15 6/1/2017 170601 0-0.17 REG	OU1EESB16 5/31/2017 170531 0-0.17 REG	OU1EESB17 5/31/2017 170531 0-0.17 REG	OU1EESB18 5/23/2017 170523 0-0.17 REG	OU1EESB19 5/23/2017 170523 0-0.17 REG	OU1EESB20 5/24/2017 170524 0-0.17 REG	OU1EESB21 5/25/2017 170525 0-0.17 REG	OU1EESB22 5/30/2017 170530 0-0.17 REG
Polychlorinated Biphenyls																	
Aroclor 1016	12674-11-2	--	--	--	--	--	--	< 0.0055	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	< 0.007	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	< 0.012	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	< 0.005	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	< 0.005	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	< 0.005	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	< 0.0074	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	< 0.005	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	< 0.005	--	--	--	--	--	--	--	--	--
Pesticides																	
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	< 0.0005	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	0.0024 J	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	0.0029	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	< 0.00026	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	< 0.00026	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	0.0009 J	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	< 0.00046	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	< 0.00068	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	0.00056 JP	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	< 0.00033	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	< 0.0005	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	< 0.0005	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	< 0.0005	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	0.0011 J	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	< 0.00091	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	< 0.00026	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	< 0.00026	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	< 0.00031	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	< 0.00026	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	< 0.0026	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	< 0.021	--	--	--	--	--	--	--	--	--
Metals																	
Aluminum	7429-90-5	--	10000	--	--	--	24,500	16,700	19,800	17,700	14,100	16,900	17,700	15,500	17,800	16,300	18,600
Antimony	7440-36-0	--	12	--	--	--	0.536 J	0.567	0.534	0.379 J	0.239 J	0.517 J	0.225 J	0.236 J	0.273 J	0.273 J	0.272 J
Arsenic	7440-38-2	16	13	13	16	16	9.28	8.14	8.72	6.92	5.33	6.47	6.41	7	7.99	5.85	7.2
Barium	7440-39-3	820	433	350	350	400	97.9	119	138	79.5	56.8	76	80.1	50.2	88.3	93.2	139
Beryllium	7440-41-7	47	10	7.2	14	72	1.17	0.901	1.02	0.872	0.537	0.69	0.677	0.631	0.827	0.7	0.918
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.234 J	0.635	0.444	0.365	0.268 J	0.257 J	0.135 J	0.158 J	0.215	0.136 J	0.346 J
Calcium	7440-70-2	--	10000	--	--	--	1,920	3,540	2,570	3,460	1,730	1,990	838	3,440	2,160	4,080	4,080
Chromium	7440-47-3	--	--	30	36	180	26.6	16.2	17.6	15.9	14.6	16.8	33.8	17.3	20.3	17.3	18.1
Cobalt	7440-48-4	--	20	--	30	--	14.1	9.59	9.15	8.01	5.41	6	9.31	10.2	10.8	9.87	10.3
Copper	7440-50-8	1720	50	50	270	270	20.7	24.3	19.4	16.7	11.2	18.7	20.4	22.2	25.7	17.2	20.1
Iron	7439-89-6	--	--	--	2000	--	37,900	22,200	23,000	21,100	13,500	17,300	22,100	24,200	26,900	20,900	21,900
Lead	7439-92-1	450	63	63	400	400	57.8	49.4	60.7	58.8	46.5	64.1	26.2	26.5	30.1	34.2	37.3
Magnesium	7439-95-4	--	--	--	--	--	6,950	5,130	4,040	3,700	3,170	3,120	4,350	4,280	7,310	4,410	4,430
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,530	1,540	1,690	1,030	334	363	769	657	837	813	1,140
Nickel	7440-02-0	130	30	30	140	310	30.6	24.2	23.2	19.6	14.5	18.7	19.7	18	24	20.9	25.9
Potassium	7440-09-7	--	--	--	--	--	2,160	1,630	1,190	1,020	1,070	1,390	1,440	1,580	3,160	1,900	1,630
Selenium	7782-49-2	4	3.9	3.9	36	180	0.612 J	0.632 J	0.740 J	0.752 J	0.555 J	0.671 J	0.390 J	0.178 J	0.258 J	0.485 J	0.451 J
Silver	7440-22-4	8.3	2	2	36	180	0.134 J	0.133 J	0.245	0.189 J	0.120 J	0.451	0.0893 J	0.0384 J	0.136 J	0.105 J	0.156 J
Sodium	7440-23-5	--	--	--	--	--	54.0 J	39.8 J	39.8 J	38.2 J	61.5 J	52.5 J	51.1 J	67.4 J	64.9 J	62.9 J	62.9 J
Thallium	7440-28-0	--	5	--	--	--	0.225 J	0.155 J	0.219 J	0.178 J	0.154 J	0.194 J	0.165 J	0.0942 J	0.131 J	0.161 J	0.174 J
Vanadium	7440-62-2	--	39	--	100	--	49.4	37.4	39.9	35.6	28.2	37	29.5	26.2	38.7	32.6	35.3
Zinc	7440-66-6	2480	109	109	2200	10000	116	116	111	95.7	75.8	106	75.7	81.7	79.2	86.3	120
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.139 J	0.156	0.188	0.143	0.0965 J	0.171	0.0910 J	0.0395 J	0.143	0.0835 J	0.108 J
		U	I	B	BI	Ye											

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Resources
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EESB23 5/30/2017 170530 0-0.17 REG	OU1EESB24 6/1/2017 170601 0-0.17 REG	OU1EESB25 6/1/2017 170601 0-0.17 REG	OU1EESB26 6/1/2017 170601 0-0.17 REG	OU1EESB27 5/31/2017 170531 0-0.17 REG	OU1EESB28 5/31/2017 170531 0-0.17 REG	OU1EESB29 5/23/2017 170523 0-0.17 REG	OU1EESB30 5/23/2017 170523 0-0.17 REG	OU1EESB31 5/23/2017 170523 0-0.17 REG	OU1EESB32 5/23/2017 170523 0-0.17 REG	OU1EESB33 5/24/2017 170524 0-0.17 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.15	< 1.1	< 0.87	< 0.14	< 0.14	< 0.15	< 0.13	< 0.15	< 0.16	< 0.14	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.10	< 0.10	< 0.093	< 0.082
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.44	< 3.2	< 2.6	< 0.41	< 0.41	< 0.45	< 0.38	< 0.45	< 0.47	< 0.42	< 0.37
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.01	< 0.072	< 0.058	< 0.009	< 0.009	< 0.01	< 0.008	< 0.01	< 0.009	< 0.009	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.005	< 0.036	< 0.029	< 0.005	0.008 J	0.007 J	0.015 J	0.007 J	< 0.005	0.009 J	0.14
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.15	< 1.1	< 0.87	< 0.14	< 0.14	< 0.15	< 0.13	< 0.15	< 0.16	< 0.14	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.25	< 1.8	< 1.4	< 0.23	< 0.23	< 0.25	< 0.21	< 0.25	< 0.26	< 0.23	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.049	< 0.36	< 0.29	< 0.045	< 0.045	< 0.05	< 0.042	< 0.05	< 0.052	< 0.047	< 0.041
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.25	< 1.8	< 1.4	< 0.23	< 0.23	< 0.25	< 0.21	< 0.25	< 0.26	< 0.23	< 0.2
Acenaphthene	83-32-9	98	20	20	100	100	< 0.005	0.072 J	< 0.029	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005	< 0.005	< 0.005	0.078
Acenaphthylene	208-96-8	107	--	100	100	100	0.006 J	< 0.036	0.039 J	< 0.005	0.008 J	0.01 J	0.04	< 0.005	< 0.005	0.017 J	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.020
Anthracene	120-12-7	1000	--	100	100	100	0.007 J	0.17 J	< 0.029	< 0.005	0.008 J	0.013 J	0.026	0.01 J	< 0.005	0.014 J	0.023
Atrazine	1912-24-9	--	--	--	--	--	< 0.049	< 0.36	< 0.29	< 0.045	< 0.045	< 0.05	< 0.042	< 0.050	< 0.052	< 0.047	< 0.041
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.098	< 0.72	< 0.58	< 0.091	< 0.09	0.19 J	0.087 J	0.16 J	0.18 J	0.11 J	< 0.082
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.021 J	0.51	0.058 J	0.008 J	0.024	0.04	0.064	0.022 J	0.021 J	0.032	0.006 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.03	0.49	0.071 J	0.009 J	0.036	0.058	0.084	0.029	0.027	0.041	0.007 J
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.039	0.61	0.13 J	0.014 J	0.053	0.081	0.11	0.047	0.045	0.062	0.008 J
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.026	0.34	0.057 J	0.007 J	0.025	0.04	0.07	0.024 J	0.016 J	0.03	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.018 J	0.34	0.034 J	< 0.005	0.018 J	0.035	0.036	0.017 J	0.016 J	0.021 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.098	< 0.72	< 0.58	<							

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EESB23 5/30/2017 170530 0-0.17 REG	OU1EESB24 6/1/2017 170601 0-0.17 REG	OU1EESB25 6/1/2017 170601 0-0.17 REG	OU1EESB26 6/1/2017 170601 0-0.17 REG	OU1EESB27 5/31/2017 170531 0-0.17 REG	OU1EESB28 5/31/2017 170531 0-0.17 REG	OU1EESB29 5/23/2017 170523 0-0.17 REG	OU1EESB30 5/23/2017 170523 0-0.17 REG	OU1EESB31 5/23/2017 170523 0-0.17 REG	OU1EESB32 5/23/2017 170523 0-0.17 REG	OU1EESB33 5/24/2017 170524 0-0.17 REG	
Polychlorinated Biphenyls																		
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.005	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0064	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.011	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0046	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0046	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0046	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0068	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0046	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0046	--
Pesticides																		
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--	< 0.00053 V	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--	0.0025	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--	0.0012 J	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--	< 0.00024	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--	0.00026 J	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--	< 0.00024	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--	< 0.00042	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--	< 0.00062	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--	< 0.00046	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	< 0.00031	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	< 0.00046	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	< 0.00046	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--	< 0.00046	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00046	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00084	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--	< 0.00024	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--	< 0.00024	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--	< 0.00024	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--	< 0.00024	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--	< 0.0024	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.02	--
Metals																		
Aluminum	7429-90-5	--	10000	--	--	--	19,800	12,400	15,400	14,100	20,400	20,000	16,000	15,400	18,300	16,700	18,900	
Antimony	7440-36-0	--	12	--	--	--	0.499 J	< 0.183	0.499 J	0.276 J	0.34 J	0.28 J	0.242 J	0.177 J	0.178 J	0.275 J	0.153 J	
Arsenic	7440-38-2	16	13	13	16	16	7.81	6.48	6.44	6.39	8.41	7.59	7.29	5.32	6.27	6.01	4.56	
Barium	7440-39-3	820	433	350	350	400	69.8	76	80.5	52.5	61.6	80.7	43.7	63.5	90.4	68.6	72.2	
Beryllium	7440-41-7	47	10	7.2	14	72	0.764	0.858	0.776	0.595	1.02	1.12	0.541	0.601	0.806	0.628	0.827	
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.178 J	0.559	0.489	0.225	0.18 J	0.23	0.100 J	0.119 J	0.139 J	0.0987 J	0.0639 J	
Calcium	7440-70-2	--	10000	--	--	--	752	11,800	4,080	1,760	531	1,070	485	931	1,570	791	542	
Chromium	7440-47-3	--	--	30	36	180	19.8	14.3	13.8	12	17.9	21.6	17.9	16.3	18.4	17.7	20.6	
Cobalt	7440-48-4	--	20	--	30	--	9.93	7.95	5.11	5.73	8.81	14.7	10.1	9.84	9.05	8.92	9.4	
Copper	7440-50-8	1720	50	50	270	270	19.9	28.8	14.1	11.3	17.1	25.5	21.2	16.2	18.5	16.7	15.4	
Iron	7439-89-6	--	--	--	2000	--	24,000	22,900	15,800	16,300	22,800	34,500	26,100	22,000	22,500	19,900	25,600	
Lead	7439-92-1	450	63	63	400	400	32	24	59.6	39.1	38.2	59.7	36.4	21.3	32.5	49.7	12.7	
Magnesium	7439-95-4	--	--	--	--	--	4,170	7,930	2,850	2,930	4,030	5,770	4,840	4,300	4,210	3,780	4,960	
Manganese	7439-96-5	2000	1600	1600	2000	2000	672	1,080	934	468	667	1,310	514	801	1,010	597	659	
Nickel	7440-02-0	130	30	30	140	310	21.6	28.3	16.2	15.5	21.1	30.3	20.9	17.9	20.3	18.4	21.5	
Potassium	7440-09-7	--	--	--	--	--	1,460	1,870	1,060	730	1,100	972	1,050	1,140	1,030	1,350	1,490	
Selenium	7782-49-2	4	3.9	3.9	36	180	0.710 J	0.378 J	0.759 J	0.462 J	0.77 J	0.456 J	0.410 J	0.338 J	0.546 J	0.483 J	0.313 J	
Silver	7440-22-4	8.3	2	2	36	180	0.114 J	0.171 J	0.326 J	0.114 J	0.202 J	0.111 J	0.0831 J	0.0541 J	0.0939 J	0.0989 J	0.0482 J	
Sodium	7440-23-5	--	--	--	--	--	48.4 J	74.3 J	49.6 J	32.1 J	45.3 J	35.8 J	37.5 J	38.8 J	51.7 J	58.3 J	40.2 J	
Thallium	7440-28-0	--	5	--	--	--	0.189 J	0.0974 J	0.165 J	0.154 J	0.182 J	0.145 J	0.134 J	0.126 J	0.162 J	0.159 J	0.135 J	
Vanadium	7440-62-2	--	39	--	100	--	32.4	28.8	39.5	26.5	32.8	35.4	30.7	27.2	32.6	35.8	26.5	
Zinc	7440-66-6	2480	109	109	2200	10000	93.8	92.6	82.8	66.6	79.9	131	71.1	66.2	81.6	70.1	66.1	
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.106 J	0.185 J	0.171	0.0869 J	0.141	0.174	0.123 J	0.0546 J	0.0874 J	0.0890 J	0.0285 J	
		U	I	B	BI	Ye												

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Resources
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EESB34 5/24/2017 170524 0-0.17 REG	OU1EESB35 5/24/2017 170524 0-0.17 REG	OU1EESB36 5/25/2017 170525 0-0.17 REG	OU1EESB37 5/24/2017 170524 0-0.17 REG	OU1EESB38 5/25/2017 170525 0-0.17 REG	OU1EESB39 5/25/2017 170525 0-0.17 REG	OU1EESB40 6/1/2017 170601 0-0.17 REG	OU1EESB41 6/1/2017 170601 0-0.17 REG	OU1EESB42 5/26/2017 170526 0-0.17 REG	OU1EESB43 5/30/2017 170530 0-0.17 REG	OU1EESB44 5/30/2017 170530 0-0.17 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.14	< 0.12	< 0.13	< 0.14	< 0.13	< 0.17	< 0.14	< 0.15	< 0.12	< 0.19	< 0.15
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.094	< 0.080	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.42	< 0.36	< 0.4	< 0.42	< 0.39	< 0.52	< 0.43	< 0.45	< 0.36	< 0.57	< 0.46
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.008	< 0.009	< 0.009	< 0.009	< 0.011	< 0.01	< 0.01	< 0.008	< 0.013	< 0.01
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.008 J	< 0.004	< 0.004	< 0.005	< 0.004	0.007 J	< 0.005	< 0.005	< 0.004	0.013 J	< 0.005
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.14	< 0.12	< 0.13	< 0.14	< 0.13	< 0.17	< 0.14	< 0.15	< 0.12	< 0.19	< 0.15
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.23	< 0.2	< 0.22	< 0.23	< 0.21	< 0.29	< 0.24	< 0.25	< 0.2	< 0.32	< 0.25
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.047	< 0.04	< 0.044	< 0.046	< 0.043	< 0.057	< 0.048	< 0.049	< 0.039	< 0.063	< 0.051
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.023	< 0.02	< 0.022	< 0.023	0.059	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.23	< 0.2	< 0.22	< 0.23	< 0.21	< 0.29	< 0.24	< 0.25	< 0.2	< 0.32	< 0.25
Acenaphthene	83-32-9	98	20	20	100	100	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.006	< 0.005	< 0.005	< 0.004	< 0.006	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	0.013 J	0.006 J	0.004 J	0.006 J	0.009 J	0.013 J	0.012 J	0.006 J	< 0.004	0.009 J	< 0.005
Acetophenone	98-86-2	--	--	--	--	--	0.029 J	< 0.020	< 0.022	< 0.023	< 0.021	< 0.029	0.040 J	< 0.025	< 0.020	< 0.032	< 0.025
Anthracene	120-12-7	1000	--	100	100	100	0.009 J	< 0.004	< 0.004	< 0.005	0.012 J	0.014 J	0.014 J	< 0.005	< 0.004	0.007 J	0.005 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.047	< 0.040	< 0.044	< 0.046	< 0.043	< 0.057	< 0.048	< 0.049	< 0.039	< 0.063	< 0.051
Benzaldehyde	100-52-7	--	--	--	--	--	0.14 J	< 0.080	< 0.088	0.12 J	0.12 J	0.19 J	0.22 J	0.28	< 0.079	0.31 J	< 0.1
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.024 J	0.004 J	0.013 J	0.013 J	0.028	0.035	0.041	0.018 J	0.008 J	0.036	0.014 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.057	0.007 J	0.016 J	0.021 J	0.034	0.047	0.05	0.024 J	0.01 J	0.055	0.019 J
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.053	0.01 J	0.027	0.028	0.056	0.078	0.083	0.035	0.017 J	0.078	0.029
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.025	0.005 J	0.012 J	0.015 J	0.029	0.04	0.037	0.02 J	0.009 J	0.033	0.014 J
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.019 J	0.004 J	0.012 J	0.013 J	0.026	0.025 J	0.031	< 0.005	0.006 J	0.03 J	0.011 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--													

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	375-6.8(b) & CP 51 Residential- Restricted	OU1EESB34 5/24/2017 170524 0-0.17 REG	OU1EESB35 5/24/2017 170524 0-0.17 REG	OU1EESB36 5/25/2017 170525 0-0.17 REG	OU1EESB37 5/24/2017 170524 0-0.17 REG	OU1EESB38 5/25/2017 170525 0-0.17 REG	OU1EESB39 5/25/2017 170525 0-0.17 REG	OU1EESB40 6/1/2017 170601 0-0.17 REG	OU1EESB41 6/1/2017 170601 0-0.17 REG	OU1EESB42 5/26/2017 170526 0-0.17 REG	OU1EESB43 5/30/2017 170530 0-0.17 REG	OU1EESB44 5/30/2017 170530 0-0.17 REG
Polychlorinated Biphenyls																	
Aroclor 1016	12674-11-2	--	--	--	--	--	--	< 0.0043	--	--	--	--	--	< 0.0054	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	< 0.0055	--	--	--	--	--	< 0.0069	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	< 0.0096	--	--	--	--	--	< 0.012	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	< 0.004	--	--	--	--	--	< 0.005	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	< 0.004	--	--	--	--	--	< 0.005	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	< 0.004	--	--	--	--	--	< 0.005	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	< 0.0059	--	--	--	--	--	< 0.0074	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	< 0.004	--	--	--	--	--	< 0.005	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	< 0.004	--	--	--	--	--	< 0.005	--	--	--
Pesticides																	
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	< 0.0004	--	--	--	--	--	< 0.00049	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	< 0.0004	--	--	--	--	--	0.0016 J	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	< 0.00042	--	--	--	--	--	0.0018 J	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	< 0.00021	--	--	--	--	--	< 0.00025	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	< 0.00021	--	--	--	--	--	< 0.00025	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	< 0.00021	--	--	--	--	--	< 0.00025	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	< 0.00036	--	--	--	--	--	< 0.00045	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	< 0.00055	--	--	--	--	--	< 0.00067	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	< 0.0004	--	--	--	--	--	0.00063 JP	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	< 0.00027	--	--	--	--	--	< 0.00033	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	< 0.0004	--	--	--	--	--	< 0.00049	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	< 0.0004	--	--	--	--	--	< 0.00049	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	< 0.0004	--	--	--	--	--	< 0.00049	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	< 0.0004	--	--	--	--	--	0.00067 J	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	< 0.00073	--	--	--	--	--	< 0.0009	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	< 0.00021	--	--	--	--	--	< 0.00025	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	< 0.00021	--	--	--	--	--	< 0.00025	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	< 0.00021	--	--	--	--	--	< 0.0006 V	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	< 0.00021	--	--	--	--	--	< 0.00025	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	< 0.0021	--	--	--	--	--	< 0.0025	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	< 0.017	--	--	--	--	--	< 0.021	--	--	--
Metals																	
Aluminum	7429-90-5	--	10000	--	--	--	20,300	18,300	17,800	15,700	12,900	19,200	20,300	14,200	16,800	16,500	14,200
Antimony	7440-36-0	--	12	--	--	--	0.290 J	0.123 J	0.179 J	0.183 J	0.289 J	0.416 J	0.273 J	0.247 J	0.242 J	0.39 J	0.264 J
Arsenic	7440-38-2	16	13	13	16	16	7.48	6.6	6.4	5.1	6.15	8.75	7.64	5.78	5.66	7.42	6.08
Barium	7440-39-3	820	433	350	350	400	87.4	83.8	84.9	71	60	58.4	99.7	97	62.3	129	51.9
Beryllium	7440-41-7	47	10	7.2	14	72	0.882	0.826	0.8	0.685	0.648	0.797	1.06	0.607	0.661	0.886	0.66
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.152 J	0.117 J	0.165 J	0.153 J	0.167 J	0.168 J	0.111 J	0.166 J	0.148 J	0.346	0.191 J
Calcium	7440-70-2	--	10000	--	--	--	846	1,570	1,430	814	765	799	1,040	2,370	2,830	4,850	3,470
Chromium	7440-47-3	--	--	30	36	180	20.9	21.3	20.1	17.5	12.1	19.4	19.7	15.5	18.1	16.5	11.4
Cobalt	7440-48-4	--	20	--	30	--	12.1	13.1	11.2	15.8	6.28	11.7	9.06	9.14	10	9.84	5.7
Copper	7440-50-8	1720	50	50	270	270	20.6	25.8	19.2	17.5	10.8	19.6	16.4	15.8	17.8	20.5	11.8
Iron	7439-89-6	--	--	--	2000	--	24,000	29,300 E	27,200	22,000	15,000	29,000	24,100	19,300	27,000	24,400	14,700
Lead	7439-92-1	450	63	63	400	400	35.8	16.7	27.9	30.8	34.9	55	44.9	37.1	19.3	45.8	30.6
Magnesium	7439-95-4	--	--	--	--	--	4,850	5,730	5,300	4,190	2,630	6,200	4,600	3,900	6,640	4,600	3,570
Manganese	7439-96-5	2000	1600	1600	2000	2000	782	639	864	691	618	584	598	797	851	1,320	487
Nickel	7440-02-0	130	30	30	140	310	25.8	27.3	26	21	15	25.7	24.4	21	19.9	23.8	13.5
Potassium	7440-09-7	--	--	--	--	--	1,570	2,200	1,440	1,300	759	1,780	1,310	1,510	1,990	1,230	673
Selenium	7782-49-2	4	3.9	3.9	36	180	0.585 J	0.209 J	0.428 J	0.425 J	0.507 J	0.567 J	0.585 J	0.454 J	0.223 J	0.601 J	0.585 J
Silver	7440-22-4	8.3	2	2	36	180	0.0996 J	0.0328 J	0.0503 J	0.0606 J	0.150 J	0.0829 J	0.139 J	0.114 J	0.0399 J	0.142 J	0.156 J
Sodium	7440-23-5	--	--	--	--	--	49.8 J	58.0 J	43.7 J	40.0 J	53.3 J	49.4 J	52.3 J	54.2 J	43.6 J	31.1 J	31.1 J
Thallium	7440-28-0	--	5	--	--	--	0.202 J	0.123 J	0.156 J	0.153 J	0.129 J	0.174 J	0.204	0.129 J	0.136 J	0.145 J	0.132 J
Vanadium	7440-62-2	--	39	--	100	--	42.3	27.4	31.7	33.1	32.8	41.7	45.4	31.8	27.6	33.6	24.5
Zinc	7440-66-6	2480	109	109	2200	10000	89.3	76.1	86.6	73.1	60.8	84.4	98.9	73	60.9	97.2	63.9
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0895 J	0.0383 J	0.0598 J	0.0641 J	0.122 J	0.0826 J	0.141	0.102 J	0.0374 J	0.165 J	0.118 J
		U	I	B	Bl	Ye											

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Resources
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	OU1EESB45 5/31/2017 170531 0-0.17 REG	OU1EESB46 5/25/2017 170525 0-0.17 REG	OU1EESB47 5/25/2017 170525 0-0.17 REG	OU1EESB48 5/25/2017 170525 0-0.17 REG	OU1EESB49 6/1/2017 170601 0-0.17 REG	OU1EESB50 5/24/2017 170524 0-0.17 REG	OU1EESB51 5/24/2017 170524 0-0.17 REG	OU1EESB52 5/25/2017 170525 0-0.17 REG	OU1EESB53 5/25/2017 170525 0-0.17 REG	OU1EESB54 5/25/2017 170525 0-0.17 REG	OU1EESB55 5/26/2017 170526 0-0.17 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.15	< 0.11	< 0.14	< 0.14	< 0.16	< 0.13	< 0.83	< 0.13	< 0.14	< 0.15	< 0.14
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.099	< 0.073	< 0.096	< 0.090	< 0.10	< 0.084	< 0.56	< 0.089	< 0.093	< 0.10	< 0.090
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.44	< 0.33	< 0.43	< 0.41	< 0.47	< 0.38	< 2.5	< 0.4	< 0.42	< 0.46	< 0.41
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.01	< 0.007	< 0.01	< 0.009	< 0.01	< 0.008	< 0.056	< 0.009	< 0.009	< 0.01	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.005 J	0.015 J	0.026	0.008 J	0.01 J	< 0.004	< 0.028	< 0.004	< 0.005	< 0.005	< 0.005
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.15	< 0.11	< 0.14	< 0.14	< 0.16	< 0.13	< 0.83	< 0.13	< 0.14	< 0.15	< 0.14
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.25	< 0.18	< 0.24	< 0.23	< 0.26	< 0.21	< 1.4	< 0.22	< 0.23	< 0.26	< 0.23
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.049	< 0.037	< 0.048	< 0.045	< 0.052	< 0.042	< 0.28	< 0.044	< 0.046	< 0.051	< 0.045
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.025	< 0.018	0.052	0.023 J	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	0.14	0.088
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.25	< 0.18	< 0.24	< 0.23	< 0.26	< 0.21	< 1.4	< 0.22	< 0.23	< 0.26	< 0.23
Acenaphthene	83-32-9	98	20	20	100	100	< 0.005	0.006 J	< 0.005	< 0.004	< 0.005	< 0.004	< 0.028	< 0.004	< 0.005	< 0.005	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	0.014 J	0.005 J	0.008 J	0.012 J	0.014 J	< 0.004	< 0.028	0.006 J	0.007 J	0.008 J	0.007 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.025	< 0.018	< 0.024	0.026 J	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
Anthracene	120-12-7	1000	--	100	100	100	0.009 J	0.018 J	0.01 J	0.013 J	< 0.005	< 0.004	< 0.028	0.008 J	0.007 J	0.009 J	0.007 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.049	< 0.037	< 0.048	< 0.045	< 0.052	< 0.042	< 0.28	< 0.044	< 0.046	< 0.051	< 0.045
Benzaldehyde	100-52-7	--	--	--	--	--	0.55	< 0.073	0.14 J	0.15 J	0.31	< 0.084	< 0.56	< 0.089	< 0.093	< 0.10	0.12 J
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.028	0.055	0.023 J	0.037	0.043	0.013 J	0.031 J	0.018 J	0.018 J	0.024 J	0.019 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.045	0.07	0.021 J	0.038	0.052	0.017 J	< 0.028	0.02 J	0.019 J	0.032	0.025
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.061	0.1	0.035	0.071	0.09	0.027	0.056 J	0.027	0.036	0.055	0.041
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.03	0.067	0.017 J	0.036	0.047	0.013 J	0.032 J	0.017 J	0.019 J	0.026 J	0.02 J
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.028	0.039	0.014 J	0.029	0.038	0.011 J	< 0.028	0.019 J	0.018 J	0.018 J	0.021 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.099										

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	375-6.8(b) & CP 51 Residential- Restricted	OU1EESB45 5/31/2017 170531 0-0.17 REG	OU1EESB46 5/25/2017 170525 0-0.17 REG	OU1EESB47 5/25/2017 170525 0-0.17 REG	OU1EESB48 5/25/2017 170525 0-0.17 REG	OU1EESB49 6/1/2017 170601 0-0.17 REG	OU1EESB50 5/25/2017 170524 0-0.17 REG	OU1EESB51 5/24/2017 170524 0-0.17 REG	OU1EESB52 5/25/2017 170525 0-0.17 REG	OU1EESB53 5/25/2017 170525 0-0.17 REG	OU1EESB54 5/25/2017 170525 0-0.17 REG	OU1EESB55 5/26/2017 170526 0-0.17 REG	
Polychlorinated Biphenyls																		
Aroclor 1016	12674-11-2	--	--	--	--	--	< 0.0053	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	< 0.0067	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	< 0.012	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	< 0.0048	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	< 0.0048	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	< 0.0048	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	< 0.0072	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	< 0.0048	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	< 0.0048	--	--	--	--	--	--	--	--	--	--	--
Pesticides																		
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	< 0.00065 V	--	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	0.0036	--	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	0.0027	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	< 0.00025	--	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	0.00069 JP	--	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	0.00031 J	--	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	< 0.00044	--	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	< 0.00066	--	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	< 0.00059 V	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	< 0.00032	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	< 0.00049	--	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	< 0.00049	--	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	< 0.00049	--	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	< 0.00049	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	< 0.00088	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	< 0.00025	--	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	< 0.00052 V	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	< 0.00043 V	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	< 0.00025	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	< 0.0025	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	< 0.021	--	--	--	--	--	--	--	--	--	--	--
Metals																		
Aluminum	7429-90-5	--	10000	--	--	--	14,500	13,300	11,400	14,800	16,900	15,700	25,800	13,500	22,800	25,400	24,300	
Antimony	7440-36-0	--	12	--	--	--	0.289 J	0.105 J	0.251 J	0.239 J	0.444 J	0.127 J	0.342 J	0.261 J	0.292 J	0.439 J	0.290 J	
Arsenic	7440-38-2	16	13	13	16	16	7.84	6.42	4.67	6.36	7.29	4.95	7.61	5.09	6.19	8.57	6.78	
Barium	7440-39-3	820	433	350	350	400	78.6	59.6	81.8	84.9	139	86.1	79.4	60.3	97.1	102	120	
Beryllium	7440-41-7	47	10	7.2	14	72	0.792	0.53	0.526	0.661	1.04	0.681	1.03	0.583	0.859	1.06	1.37	
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.197 J	0.177 J	0.232 J	0.198 J	0.581	0.167 J	0.271 J	0.108 J	0.123 J	0.0745 J	0.156 J	
Calcium	7440-70-2	--	10000	--	--	--	1,330	14,900	2,730	1,960	5,340	1,830	1,340	572	2,280	664	802	
Chromium	7440-47-3	--	--	30	36	180	12.8	16.2	11.1	14.2	14.1	16.7	26.8	13.9	21.8	26.1	25.7	
Cobalt	7440-48-4	--	20	--	30	--	6.99	11.3	5.66	7.17	7.21	7.7	13.8	7.29	8.48	12.8	16.2	
Copper	7440-50-8	1720	50	50	270	270	13.3	21.2	12.6	14.4	17.5	16.9	23.7	15.1	16.9	21.8	21.2	
Iron	7439-89-6	--	--	--	2000	--	17,600	25,300	13,800	17,500	19,600	19,500	31,800	17,900	24,300	31,700	34,500	
Lead	7439-92-1	450	63	63	400	400	44.2	25	31.6	40.8	47.9	22.2	40.3	24.4	22.2	35.1	36.3	
Magnesium	7439-95-4	--	--	--	--	--	2,920	15,100	2,740	3,350	3,660	3,940	6,350	3,380	5,100	6,170	6,350	
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,070	1,030	669	818	1,690	521	1,150	509	532	959	2,620	
Nickel	7440-02-0	130	30	30	140	310	17.4	26.8	15.8	18.1	22.5	19.8	30.2	17	21.1	26	28.1	
Potassium	7440-09-7	--	--	--	--	--	626	1,510	1,120	1,150	1,180	1,520	2,000	1,100	2,140	2,310	1,960	
Selenium	7782-49-2	4	3.9	3.9	36	180	0.714 J	0.162 J	0.395 J	0.579 J	0.627 J	0.420 J	0.684 J	0.428 J	0.607 J	0.528 J	0.397 J	
Silver	7440-22-4	8.3	2	2	36	180	0.206 J	0.174 J	0.146 J	0.165 J	0.155 J	0.0467 J	0.117 J	0.104 J	0.0684 J	0.0892 J	0.0676 J	
Sodium	7440-23-5	--	--	--	--	--	32.2 J	59.7 J	35.4 J	40.6 J	44.2 J	54.6 J	62.7 J	27.8 J	108	64.5 J	51.7 J	
Thallium	7440-28-0	--	5	--	--	--	0.16 J	0.108 J	0.136 J	0.145 J	0.147 J	0.152 J	0.267 J	0.153 J	0.215	0.170 J	0.150 J	
Vanadium	7440-62-2	--	39	--	100	--	27	25.5	25.7	32.9	37.2	30.1	52	24.8	38.7	47.2	42.8	
Zinc	7440-66-6	2480	109	109	2200	10000	75.1	87.8	66.1	75.9	196	67.4	113	67.2	85.2	99	94.8	
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.162	0.241	0.0680 J	0.124 J	0.184	0.0710 J	0.109 J	0.0678 J	0.0566 J	0.0895 J	0.0742 J	
		U	I	B	BI	Ye												

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Resources
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	375-6.8(b) & CP 51 Residential- Restricted	OU1EESB56 5/26/2017 170526 0-0.17 REG	OU1EESB57 5/30/2017 170530 0-0.17 REG	OU1EESB58 5/26/2017 170526 0-0.17 REG	OU1EESB59 5/26/2017 170526 0-0.17 REG	OU1EESB60 5/30/2017 170530 0-0.17 REG	OU1EESB61 6/1/2017 170601 0-0.17 REG	OU1EESB62 6/1/2017 170601 0-0.17 REG	OU1EESB63 5/31/2017 170531 0-0.17 REG	OU1EESB64 5/31/2017 170531 0-0.17 REG	OU1EESB65 5/31/2017 170531 0-0.17 REG	OU1EESB66 5/31/2017 170531 0-0.17 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.17	< 0.16	< 0.16	< 0.24	< 0.19	< 0.15	< 0.16	< 0.13	< 0.13	< 0.13	< 0.19
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.10	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.52	< 0.48	< 0.48	< 0.72	< 0.57	< 0.45	< 0.48	< 0.4	< 0.38	< 0.4	< 0.56
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.011	< 0.011	< 0.011	< 0.016	< 0.013	< 0.01	< 0.011	< 0.009	< 0.009	< 0.009	< 0.013
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.006	< 0.005	0.006 J	0.01 J	< 0.006	0.012 J	0.007 J	0.005 J	0.005 J	0.005 J	0.018 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.17	< 0.16	< 0.16	< 0.24	< 0.19	< 0.15	< 0.16	< 0.13	< 0.13	< 0.13	< 0.19
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.29	< 0.26	< 0.27	< 0.4	< 0.32	< 0.25	< 0.26	< 0.22	< 0.21	< 0.22	< 0.31
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.057	< 0.053	< 0.053	< 0.08	< 0.063	< 0.051	< 0.053	< 0.044	< 0.043	< 0.045	< 0.063
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.29	< 0.26	< 0.27	< 0.4	< 0.32	< 0.25	< 0.26	< 0.22	< 0.21	< 0.22	< 0.31
Acenaphthene	83-32-9	98	20	20	100	100	< 0.006	< 0.005	< 0.005	< 0.008	< 0.006	0.007 J	< 0.005	0.005 J	< 0.004	< 0.004	< 0.006
Acenaphthylene	208-96-8	107	--	100	100	100	0.007 J	0.013 J	0.012 J	< 0.008	0.016 J	0.01 J	< 0.005	0.012 J	0.009 J	0.01 J	0.017 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.040	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
Anthracene	120-12-7	1000	--	100	100	100	0.007 J	0.009 J	0.015 J	< 0.008	0.009 J	0.012 J	< 0.005	0.01 J	0.011 J	0.01 J	0.022 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.057	< 0.053	< 0.053	< 0.080	< 0.063	< 0.051	< 0.053	< 0.044	< 0.043	< 0.045	< 0.063
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.11	0.14 J	0.18 J	< 0.16	0.16 J	0.14 J	0.17 J	< 0.089	< 0.085	< 0.09	0.3 J
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.023 J	0.03	0.033	< 0.008	0.052	0.029	0.019 J	0.029	0.027	0.029	0.05
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.031	0.053	0.042	< 0.008	0.072	0.034	0.023 J	0.054	0.034	0.033	0.065
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.055	0.061	0.072	< 0.008	0.088	0.053	0.047	0.055	0.064	0.058	0.14
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.026 J	0.032	0.035	< 0.008	0.057	0.025 J	0.023 J	0.032	0.027	0.027	0.061
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.018 J	0.024 J	0.024 J	< 0.008	0.037	0.025 J	0.019 J	0.028	0.019 J	0.02 J	0.044
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.11										

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	375-6.8(b) & CP 51 Residential- Restricted	OU1EESB56 5/26/2017 170526 0-0.17 REG	OU1EESB57 5/30/2017 170530 0-0.17 REG	OU1EESB58 5/26/2017 170526 0-0.17 REG	OU1EESB59 5/26/2017 170526 0-0.17 REG	OU1EESB60 5/30/2017 170530 0-0.17 REG	OU1EESB61 6/1/2017 170601 0-0.17 REG	OU1EESB62 6/1/2017 170601 0-0.17 REG	OU1EESB63 5/31/2017 170531 0-0.17 REG	OU1EESB64 5/31/2017 170531 0-0.17 REG	OU1EESB65 5/31/2017 170531 0-0.17 REG	OU1EESB66 5/31/2017 170531 0-0.17 REG
Polychlorinated Biphenyls																	
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																	
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																	
Aluminum	7429-90-5	--	10000	--	--	--	22,700	24,800	22,700	22,300	21,500	32,600	14,900	19,200	17,900	17,300	21,500
Antimony	7440-36-0	--	12	--	--	--	0.360 J	0.648	0.605	0.597 J	0.62	0.249 J	0.298 J	0.488	0.615	0.355 J	0.855
Arsenic	7440-38-2	16	13	13	16	16	7.85	9.95	8.43	9.55	7.53	9.16	5.2	7.59	8.98	7.18	10.8
Barium	7440-39-3	820	433	350	350	400	122	106	86.7	173	147	165	84.3	49.2	54.8	65.2	69.3
Beryllium	7440-41-7	47	10	7.2	14	72	1.01	1.14	0.949	1.36	1.21	2.13	0.548	0.745	0.84	0.776	0.796
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.221 J	0.259	0.115 J	0.223 J	0.33	0.168 J	0.250 J	0.0532 J	0.0974 J	0.15 J	0.156 J
Calcium	7440-70-2	--	10000	--	--	--	3,300	3,100	751	2,810	3,710	2,440	2,900	630	477	448	1,310
Chromium	7440-47-3	--	--	30	36	180	32.9	24.2	23.5	19.8	20	28.8	14.5	34.7	25.1	24.3	21.7
Cobalt	7440-48-4	--	20	--	30	--	10.3	13.5	12	9.32	8.67	8.93	5.67	8.23	7.93	7.41	8.14
Copper	7440-50-8	1720	50	50	270	270	19.5	21.4	20.8	19.3	19.1	26.9	15.5	15.3	16.2	15.4	22.5
Iron	7439-89-6	--	--	--	2000	--	27,400	31,800	28,400	22,600	21,500	28,100	15,700	25,200	20,700	18,700	25,800
Lead	7439-92-1	450	63	63	400	400	33.2	57	41.5	54.7	52.5	50.4	38.5	38.6	43.2	36.5	65.2
Magnesium	7439-95-4	--	--	--	--	--	5,440	6,410	5,460	4,280	4,230	4,860	3,410	4,540	3,480	3,450	4,160
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,060	978	941	1,350	1,510	444	472	695	687	559	508
Nickel	7440-02-0	130	30	30	140	310	25.5	30.7	25.7	27.4	23.3	30.2	15.9	17	18.7	17.3	21.9
Potassium	7440-09-7	--	--	--	--	--	2,430	2,200	2,060	1,820	1,470	1,900	1,150	1,010	994	1,330	1,660
Selenium	7782-49-2	4	3.9	3.9	36	180	0.629 J	0.663 J	0.585 J	0.780 J	0.632 J	1	0.504 J	0.724 J	0.762	0.583 J	1.05 J
Silver	7440-22-4	8.3	2	2	36	180	0.0724 J	0.125 J	0.106 J	0.248 J	0.162 J	0.271	0.147 J	0.123 J	0.169 J	0.15 J	0.238 J
Sodium	7440-23-5	--	--	--	--	--	83.9 J	52.5 J	59.7 J	62.6 J	49.1 J	75.9 J	50.2 J	32.1 J	36.2 J	40 J	56 J
Thallium	7440-28-0	--	5	--	--	--	0.191 J	0.217 J	0.211 J	0.213 J	0.198 J	0.289	0.153 J	0.176 J	0.19	0.164 J	0.218 J
Vanadium	7440-62-2	--	39	--	100	--	38.6	51.1	41.4	43.5	38.5	50.7	27.8	32.2	35.1	31.3	50
Zinc	7440-66-6	2480	109	109	2200	10000	96.4	111	100	128	101	128	72.2	75.2	72.2	75.2	86.6
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0978 J	0.119 J	0.0975 J	0.144 J	0.134 J	0.16	0.106 J	0.164	0.165	0.128 J	0.0948 J
		U	I	B	BI	Ye											

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Resources
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EESB67 6/1/2017 170601 0-0.17 REG	OU1EESB68 5/26/2017 170526 0-0.17 REG	OU1EESB69 5/31/2017 170531 0-0.17 REG	OU1EFSB01 6/5/2017 170605 0-0.17 REG	OU1EFSB02 6/2/2017 170602 0-0.17 REG	OU1EFSB03 6/2/2017 170602 0-0.17 REG	OU1EFSB04 6/5/2017 170605 0-0.17 REG	OU1EFSB05 6/2/2017 170602 0-0.17 REG	OU1EFSB06 6/2/2017 170602 0-0.17 REG	OU1EFSB07 6/2/2017 170602 0-0.17 REG	OU1EFSB08 6/2/2017 170602 0-0.17 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.14	< 0.16	< 0.14	< 0.14	< 0.14	< 0.14	< 0.15	< 0.12	< 0.17	< 0.15	< 0.14
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.091	< 0.11	< 0.09	< 0.092	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.41	< 0.48	< 0.41	< 0.42	< 0.43	< 0.42	< 0.44	< 0.37	< 0.5	< 0.46	< 0.42
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.091	< 0.11	< 0.09	< 0.092	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.011	< 0.009	< 0.009	< 0.01	< 0.009	< 0.01	< 0.008	< 0.011	< 0.01	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.005	< 0.005	0.005 J	0.01 J	0.006 J	< 0.005	< 0.005	0.005 J	< 0.006	0.006 J	< 0.005
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.14	< 0.16	< 0.14	< 0.14	< 0.14	< 0.14	< 0.15	< 0.12	< 0.17	< 0.15	< 0.14
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.091	< 0.11	< 0.09	< 0.092	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.23	< 0.27	< 0.23	< 0.23	< 0.24	< 0.24	< 0.25	< 0.2	< 0.28	< 0.25	< 0.23
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.046	< 0.053	< 0.045	< 0.046	< 0.048	< 0.047	< 0.049	< 0.041	< 0.056	< 0.051	< 0.046
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.023	0.029 J	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	0.03 J	0.14
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.091	< 0.11	< 0.09	< 0.092	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.23	< 0.27	< 0.23	< 0.23	< 0.24	< 0.24	< 0.25	< 0.2	< 0.28	< 0.25	< 0.23
Acenaphthene	83-32-9	98	20	20	100	100	< 0.005	< 0.005	0.005 J	< 0.005	< 0.005	< 0.005	< 0.005	0.012 J	< 0.006	< 0.005	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	0.005 J	< 0.005	0.006 J	< 0.005	< 0.005	< 0.005	< 0.005	0.025	0.006 J	0.014 J	< 0.005
Acetophenone	98-86-2	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
Anthracene	120-12-7	1000	--	100	100	100	0.007 J	< 0.005	0.008 J	0.01 J	< 0.005	< 0.005	< 0.005	0.056	0.01 J	0.016 J	< 0.005
Atrazine	1912-24-9	--	--	--	--	--	< 0.046	< 0.053	< 0.045	< 0.046	< 0.048	< 0.047	< 0.049	< 0.041	< 0.056	< 0.051	< 0.046
Benzaldehyde	100-52-7	--	--	--	--	--	0.092 J	< 0.11	0.13 J	< 0.092	0.098 J	< 0.094	< 0.099	< 0.082	0.19 J	0.12 J	< 0.092
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.015 J	0.01 J	0.019 J	0.028	0.012 J	0.008 J	< 0.005	0.15	0.018 J	0.041	0.008 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.019 J	0.014 J	0.024	0.033	0.015 J	0.009 J	0.006 J	0.12	0.023 J	0.054	0.01 J
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.028	0.022 J	0.039	0.049	0.025	0.015 J	0.009 J	0.18	0.046	0.083	0.012 J
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.014 J	0.01 J	0.017 J	0.029	0.012 J	0.008 J	< 0.005	0.082	0.022 J	0.041	0.006 J
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.017 J	0.009 J	0.016 J	0.023 J	0.012 J	0.007 J	< 0.005	0.067	0.014 J	0.035	0.006 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
bis(2-Ethylhexyl)phthalate	117-81-7</																

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP 51 Residential	375-6.8(b) & CP 51 Residential- Restricted	OU1EESB67 6/1/2017 170601 0-0.17 REG	OU1EESB68 5/26/2017 170526 0-0.17 REG	OU1EESB69 5/31/2017 170531 0-0.17 REG	OU1EFSB01 6/5/2017 170605 0-0.17 REG	OU1EFSB02 6/2/2017 170602 0-0.17 REG	OU1EFSB03 6/2/2017 170602 0-0.17 REG	OU1EFSB04 6/5/2017 170605 0-0.17 REG	OU1EFSB05 6/2/2017 170602 0-0.17 REG	OU1EFSB06 6/2/2017 170602 0-0.17 REG	OU1EFSB07 6/2/2017 170602 0-0.17 REG	OU1EFSB08 6/2/2017 170602 0-0.17 REG
Polychlorinated Biphenyls																	
Aroclor 1016	12674-11-2	--	--	--	--	--	--	< 0.0058	--	< 0.005	< 0.0052	< 0.0051	< 0.0053	< 0.0045	< 0.006	< 0.0055	< 0.005
Aroclor 1221	11104-28-2	--	--	--	--	--	--	< 0.0074	--	< 0.0064	< 0.0067	< 0.0065	< 0.0068	< 0.0057	< 0.0077	< 0.0071	< 0.0063
Aroclor 1232	11141-16-5	--	--	--	--	--	--	< 0.013	--	< 0.011	< 0.012	< 0.011	< 0.012	< 0.0099	< 0.013	< 0.012	< 0.011
Aroclor 1242	53469-21-9	--	--	--	--	--	--	< 0.0053	--	< 0.0046	< 0.0048	< 0.0047	< 0.0049	< 0.0041	< 0.0055	< 0.0051	< 0.0045
Aroclor 1248	12672-29-6	--	--	--	--	--	--	< 0.0053	--	< 0.0046	< 0.0048	< 0.0047	< 0.0049	< 0.0041	< 0.0055	< 0.0051	< 0.0045
Aroclor 1254	11097-69-1	--	--	--	--	--	--	< 0.0053	--	< 0.0046	0.013 J	< 0.0047	< 0.0049	< 0.0041	< 0.0055	< 0.0051	< 0.0045
Aroclor 1260	11096-82-5	--	--	--	--	--	--	< 0.0079	--	< 0.0068	< 0.0071	< 0.0069	< 0.0072	< 0.0061	< 0.0082	< 0.0075	< 0.0067
Aroclor 1262	37324-23-5	--	--	--	--	--	--	< 0.0053	--	< 0.0046	< 0.0048	< 0.0047	< 0.0049	< 0.0041	< 0.0055	< 0.0051	< 0.0045
Aroclor 1268	11100-14-4	--	--	--	--	--	--	< 0.0053	--	< 0.0046	< 0.0048	< 0.0047	< 0.0049	< 0.0041	< 0.0055	< 0.0051	< 0.0045
Pesticides																	
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	0.00088 JP	--	0.00072 J	< 0.00048	0.0012 J	< 0.00049	0.0011 JP	0.0017 JP	< 0.0005	< 0.00046
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	0.0015 J	--	0.002 J	< 0.00048	0.0012 J	< 0.00049	0.001 JP	0.0022 J	0.0039	0.00081 J
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	0.00098 JP	--	0.0014 J	< 0.0005	< 0.00049	< 0.00052	0.00089 J	0.0012 JP	0.0023 JP	< 0.00048
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	< 0.00027	--	< 0.00024	< 0.00025	< 0.00024	< 0.00025	< 0.00021	< 0.00028	< 0.00026	< 0.00023
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	< 0.00027	--	< 0.00024	0.0011 JP	< 0.00024	< 0.00025	< 0.00021	< 0.00028	0.00046 JP	< 0.00023
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	< 0.00027	--	< 0.00024	< 0.00025	0.00044 J	< 0.00025	< 0.00021	0.0022	0.042	< 0.00023
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	< 0.00048	--	< 0.00042	< 0.00043	< 0.00042	< 0.00045	< 0.00037	< 0.0005	< 0.00046	< 0.00041
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	< 0.00072	--	< 0.00063	0.00066 JP	< 0.00064	< 0.00067	< 0.00056	< 0.0008 JP	< 0.00069	< 0.00062
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	< 0.00053	--	< 0.00046	0.0028	0.00081 J	0.00089 J	0.00065 JP	< 0.00067 V	< 0.00077 V	< 0.00046
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	< 0.00035	--	< 0.00031	< 0.00032	< 0.00031	< 0.00033	< 0.00027	< 0.00036	< 0.00034	< 0.0003
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	< 0.00053	--	< 0.00046	< 0.00048	< 0.00047	< 0.00049	< 0.00041	< 0.00055	< 0.0005	< 0.00046
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	< 0.00053	--	< 0.00046	< 0.00048	< 0.00047	< 0.00049	< 0.00041	< 0.00055	< 0.0005	< 0.00046
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	< 0.00053	--	< 0.00046	< 0.00048	< 0.00047	< 0.00049	< 0.00041	< 0.0007 J	0.0017 JP	< 0.00046
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	< 0.00053	--	< 0.00046	< 0.00048	< 0.00047	< 0.00049	< 0.00041	0.0011 JP	0.0024 JP	< 0.00046
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	< 0.00097	--	0.0014 J	< 0.00087	< 0.00085	< 0.00089	< 0.00074	< 0.001	< 0.00092	< 0.00083
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	< 0.00027	--	< 0.00024	0.0017 P	< 0.00024	< 0.00025	< 0.00021	< 0.00028	< 0.00026	< 0.00023
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	< 0.00027	--	0.0019	0.00067 JP	< 0.00024	< 0.00025	< 0.00021	< 0.00042 V	< 0.00046 V	< 0.00023
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	< 0.00027	--	< 0.00024	< 0.00025	< 0.00024	0.0013	0.00045 JP	< 0.00028	< 0.00031 V	< 0.00023
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	--	--	--	< 0.00027	--	< 0.00024	< 0.00025	0.00031 J	< 0.00025	< 0.00021	0.00061 JP	< 0.00026	< 0.00023
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	< 0.0027	--	< 0.0024	< 0.0025	< 0.0024	< 0.0025	< 0.0021	< 0.0028	< 0.0026	< 0.0023
TOXAPHENE	8001-35-2	--	--	--	--	--	--	< 0.023	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.021	< 0.017	< 0.023	< 0.021
Metals																	
Aluminum	7429-90-5	--	10000	--	--	--	13,500	22,100	15,000	14,800	21,200	13,200	14,300	15,100	17,300	16,100	13,800
Antimony	7440-36-0	--	12	--	--	--	0.267 J	0.468 J	0.273 J	0.182 J	0.198 J	< 0.138	< 0.0977	0.162 J	0.463 J	0.422 J	0.399 J
Arsenic	7440-38-2	16	13	13	16	16	5.52	8.54	5.83	6.43	7.43	5.78	5.11	9.71	6.5	7.94	15.4
Barium	7440-39-3	820	433	350	350	400	44.9	103	75.7	78.7	105	64.1	78.8	56.1	89.2	71.5	65
Beryllium	7440-41-7	47	10	7.2	14	72	0.605	0.952	0.718	0.774	1.03	0.653	0.663	0.796	0.852	0.746	0.681
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0971 J	0.173 J	0.178 J	0.212 J	0.229 J	0.128 J	0.141 J	0.154 J	0.451	0.175 J	0.17 J
Calcium	7440-70-2	--	10000	--	--	--	460	1,240	1,440	2,910	2,080	2,600	1,140	4,420	3,470	2,180	10,500
Chromium	7440-47-3	--	--	30	36	180	13.6	23.1	14.7	16.5	20.8	13.2	13.7	15.5	17.5	16.8	15.3
Cobalt	7440-48-4	--	20	--	30	--	7.23	11.8	6.87	9.57	12.5	7.4	9.1	11.6	8.04	9.22	16.7
Copper	7440-50-8	1720	50	50	270	270	13.7	21.1	14.6	20.7	25.4	14	14.3	29.5	18.9	19.9	48.3
Iron	7439-89-6	--	--	--	2000	--	18,500	28,200	17,500	22,200	31,500	19,200	18,500	27,300	20,700	23,100	28,200
Lead	7439-92-1	450	63	63	400	400	32.3	36.1	32.7	20.7	55.4	14.7	11.4	29.6	43.2	44.1	24.1
Magnesium	7439-95-4	--	--	--	--	--	2,970	5,380	3,670	4,240	5,980	3,700	3,380	6,770	4,320	4,360	11,500
Manganese	7439-96-5	2000	1600	1600	2000	2000	629	940	710	686	1,550	557	805	775	1,050	894	1,290
Nickel	7440-02-0	130	30	30	140	310	14.2	27.8	16	21.2	26.2	15.1	17.2	20.4	21	21.4	25.5
Potassium	7440-09-7	--	--	--	--	--	789	1,990	1,520	1,370	1,690	1,250	905	1,250	1,650	1,100	2,120
Selenium	7782-49-2	4	3.9	3.9	36	180	0.477 J	0.591 J	0.498 J	0.415 J	0.405 J	0.304 J	0.305 J	0.218 J	0.728 J	0.628 J	0.193 J
Silver	7440-22-4	8.3	2	2	36	180	0.0780 J	0.0779 J	0.117 J	0.0791 J	0.411	0.0731 J	0.0907 J	0.0537 J	0.149 J	0.138 J	0.0436 J
Sodium	7440-23-5	--	--	--	--	--	31.6 J	51.1 J	40.5 J	55.3 J	52.3 J	47.6 J	47.2 J	72.7 J	80.5 J	37.6 J	70.6 J
Thallium	7440-28-0	--	5	--	--	--	0.133 J	0.206 J	0.158 J	0.115 J	0.196 J	0.109 J	0.124 J	0.117 J	0.171 J	0.149 J	0.0921 J
Vanadium	7440-62-2	--	39	--	100	--	24.8	40.1	24.7	25.5	31.2	20.5	19.7	24.6	31.5	33.2	19.4
Zinc	7440-66-6	2480	109	109	2200	10000	55.9	101	79.8	83.6	106	61.7	67.7	82.6	84.8	79.7	86.4
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.103 J	0.0737 J	0.0887 J	0.118 J	1.28	0.0962 J	0.0562 J	0.171	0.121 J	0.141 J	0.0399 J
		U	I	B	BI	Ye											

Notes:
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Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EFSB09 6/5/2017 170605 0-0.17 REG	OU1EFSB10 6/5/2017 170605 0-0.17 REG	OU1EFSB11 6/5/2017 170605 0-0.17 REG	OU1EFSB12 6/5/2017 170605 0-0.17 REG
Semivolatile Organic Compounds										
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.15	< 0.14	< 0.15	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.10	< 0.093	< 0.098	< 0.085
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.025	< 0.023	< 0.025	< 0.021
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.025	< 0.023	< 0.025	< 0.021
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.45	< 0.42	< 0.44	< 0.38
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.1	< 0.093	< 0.098	< 0.085
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.025	< 0.023	< 0.025	< 0.021
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.01	< 0.009	< 0.01	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.025	< 0.023	< 0.025	< 0.021
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.005	0.014 J	0.006 J	0.008 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.025	< 0.023	< 0.025	< 0.021
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.15	< 0.14	< 0.15	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.1	< 0.093	< 0.098	< 0.085
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.25	< 0.23	< 0.25	< 0.21
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.05	< 0.046	< 0.049	< 0.043
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	0.043 J	0.056	< 0.025	0.05
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.1	< 0.093	< 0.098	< 0.085
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.25	< 0.23	< 0.25	< 0.21
Acenaphthene	83-32-9	98	20	20	100	100	0.011 J	< 0.005	< 0.005	0.017 J
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.005	< 0.005	0.006 J	0.015 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
Anthracene	120-12-7	1000	--	100	100	100	0.027	0.016 J	0.012 J	0.044
Atrazine	1912-24-9	--	--	--	--	--	< 0.050	< 0.046	< 0.049	< 0.043
Benzaldehyde	100-52-7	--	--	--	--	--	0.39	0.16 J	0.15 J	0.11 J
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.07	0.038	0.034	0.16
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.074	0.045	0.041	0.17
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.13	0.071	0.07	0.25
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.066	0.034	0.032	0.12
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.056	0.022 J	0.022 J	0.097
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.1	< 0.093	< 0.098	< 0.085
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.1	< 0.093	< 0.098	< 0.085
Caprolactam	105-60-2	--	--	--	--	--	< 0.050	< 0.046	< 0.049	< 0.043
Carbazole	86-74-8	--	--	--	--	--	< 0.025	< 0.023	< 0.025	0.03 J
Chrysene	218-01-9	1	--	1	1	3.9	0.096	0.051	0.051	0.17
Di-n-butylphthalate	84-74-2	8.1	0.01	--	100	--	< 0.1	< 0.093	< 0.098	< 0.085
Di-n-octylphthalate	117-84-0	120	--	--	100	--	< 0.1	< 0.093	< 0.098	< 0.085
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	0.012 J	< 0.005	< 0.005	< 0.004
Dibenzofuran	132-64-9	6.20	--	7	14	59	< 0.025	< 0.023	< 0.025	< 0.021
Diethylphthalate	84-66-2	7.1	100	--	100	--	< 0.1	< 0.093	< 0.098	< 0.085
Dimethyl phthalate	131-11-3	27	200	--	100	--	< 0.1	< 0.093	< 0.098	< 0.085
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	60	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
Fluoranthene	206-44-0	1000	--	100	100	100	0.17	0.083	0.082	0.32
Fluorene	86-73-7	386	30	30	100	100	< 0.005	< 0.005	< 0.005	0.017 J
Hexachlorobenzene	118-74-1	1.4	--	0.33	0.33	1.2	< 0.005	< 0.005	< 0.005	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
Hexachlorocyclopentadiene	77-47-4	--	10	--	--	--	< 0.25	< 0.23	< 0.25	< 0.21
Hexachloroethane	67-72-1	--	--	--	--	--	< 0.05	< 0.046	< 0.049	< 0.043
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	0.052	0.027	0.028	0.11
Isophorone	78-59-1	4.4	--	--	100	--	< 0.025	< 0.023	< 0.025	< 0.021
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	20	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
Naphthalene	91-20-3	12	--	12	100	100	0.012 J	0.042	0.01 J	0.014 J
Nitrobenzene	98-95-3	0.17	40	--	3.7	15	< 0.025	< 0.023	< 0.025	< 0.021
p-Chloro-m-cresol	59-50-7	--	--	--	--	--	< 0.025	< 0.023	< 0.025	< 0.021
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.05	< 0.046	< 0.049	< 0.043
Phenanthrene	85-01-8	1000	--	100	100	100	0.099	0.053	0.04	0.18
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.025	< 0.023	< 0.025	< 0.021
Pyrene	129-00-0	1000	--	100	100	100	0.15	0.076	0.076	0.29

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP- 51 Residential	375-6.8(b) & CP- 51 Residential- Restricted	OU1EFSB09 6/5/2017 170605 0-0.17 REG	OU1EFSB10 6/5/2017 170605 0-0.17 REG	OU1EFSB11 6/5/2017 170605 0-0.17 REG	OU1EFSB12 6/5/2017 170605 0-0.17 REG
Polychlorinated Biphenyls										
Aroclor 1016	12674-11-2	--	--	--	--	--	< 0.0054	< 0.005	< 0.0053	< 0.0046
Aroclor 1221	11104-28-2	--	--	--	--	--	< 0.0069	< 0.0064	< 0.0068	< 0.0059
Aroclor 1232	11141-16-5	--	--	--	--	--	< 0.012	< 0.011	< 0.012	< 0.01
Aroclor 1242	53469-21-9	--	--	--	--	--	< 0.005	< 0.0046	< 0.0049	< 0.0043
Aroclor 1248	12672-29-6	--	--	--	--	--	< 0.005	< 0.0046	< 0.0049	< 0.0043
Aroclor 1254	11097-69-1	--	--	--	--	--	< 0.005	< 0.0046	0.024 J	0.034
Aroclor 1260	11096-82-5	--	--	--	--	--	< 0.0074	< 0.0068	< 0.0073	< 0.0063
Aroclor 1262	37324-23-5	--	--	--	--	--	< 0.005	< 0.0046	< 0.0049	< 0.0043
Aroclor 1268	11100-14-4	--	--	--	--	--	< 0.005	< 0.0046	< 0.0049	0.013 J
Pesticides										
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	< 0.003	0.0014 J	0.001 J	< 0.00043
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	0.0036	0.0021 J	0.0015 J	0.0016 J
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	0.0026 P	0.002 J	0.00068 JP	0.0018 J
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	< 0.00026	< 0.00024	< 0.00025	< 0.00022
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	0.0033	< 0.00024	< 0.00025	< 0.00022
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	< 0.00026	< 0.00024	0.00035 J	0.0023
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	< 0.00045	< 0.00042	< 0.00045	< 0.00039
delta BHC	319-86-8	0.25	0.04	0.04	100	100	< 0.00077 V	< 0.00063	< 0.00067	< 0.00058
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	0.0027 P	0.00051 JP	< 0.00049	< 0.00043
Endosulfan I	959-98-8	102	--	2.4	4.8	24	< 0.00033	< 0.00031	< 0.00033	< 0.00028
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	< 0.0005	< 0.00046	< 0.00049	< 0.00043
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	< 0.0005	< 0.00046	< 0.00049	< 0.00062 V
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	0.00084 JP	0.0012 J	< 0.00049	< 0.00043
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	< 0.0005	< 0.00046	0.00053 JP	< 0.00043
ENDRIN KETONE	53494-70-5	--	--	--	--	--	< 0.00091	< 0.00084	< 0.00089	< 0.00077
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	< 0.0023 V	< 0.00024	< 0.00025	< 0.00022
gamma Chlordane	5103-74-2	14	--	--	0.54	--	0.0023 P	< 0.00059 V	< 0.00025	< 0.00022
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	< 0.0018 V	< 0.00024	< 0.00025	< 0.00022
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	< 0.00026	< 0.00024	< 0.00025	< 0.00022
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	< 0.0026	< 0.0024	< 0.0025	< 0.0022
TOXAPHENE	8001-35-2	--	--	--	--	--	< 0.021	< 0.02	< 0.021	< 0.018
Metals										
Aluminum	7429-90-5	--	10000	--	--	--	15,600	14,400	16,100	14,900
Antimony	7440-36-0	--	12	--	--	--	0.417 J	0.326 J	0.341 J	0.324 J
Arsenic	7440-38-2	16	13	13	16	16	7.85	7.77	7.73	8.58
Barium	7440-39-3	820	433	350	350	400	99.5	72.9	81.6	64.3
Beryllium	7440-41-7	47	10	7.2	14	72	0.694	0.611	0.725	0.666
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.43	0.154 J	0.220 J	0.201
Calcium	7440-70-2	--	10000	--	--	--	3,780	2,590	1,850	2,030
Chromium	7440-47-3	--	--	30	36	180	15.9	15.7	16	21.6
Cobalt	7440-48-4	--	20	--	30	--	8.96	9.61	9.3	11.4
Copper	7440-50-8	1720	50	50	270	270	20.2	19.5	18.3	27.2
Iron	7439-89-6	--	--	--	2000	--	21,000	22,400	21,700	28,600
Lead	7439-92-1	450	63	63	400	400	41.2	24.7	32.9	37.7
Magnesium	7439-95-4	--	--	--	--	--	4,080	4,480	4,120	5,110
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,170	660	887	695
Nickel	7440-02-0	130	30	30	140	310	22.3	21.5	20.9	52.2
Potassium	7440-09-7	--	--	--	--	--	1,580	1,860	1,350	1,450
Selenium	7782-49-2	4	3.9	3.9	36	180	0.504 J	0.357 J	0.432 J	0.229 J
Silver	7440-22-4	8.3	2	2	36	180	0.138 J	0.0785 J	0.107 J	0.0857 J
Sodium	7440-23-5	--	--	--	--	--	44.5 J	39.4 J	40.1 J	43.8 J
Thallium	7440-28-0	--	5	--	--	--	0.151 J	0.0957 J	0.134 J	0.0976 J
Vanadium	7440-62-2	--	39	--	100	--	60	31.8	34	126
Zinc	7440-66-6	2480	109	109	2200	10000	96.6	79	81.6	98
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.186	0.0982 J	0.123 J	0.505
		U	I	B	BI	Ye				

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Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB01 5/23/2017 OU1EESB01-S-0.17- 0.17-0.5 REG	OU1EESB01 5/23/2017 OU1EESB01-S-0.50- 0.5-1 REG	OU1EESB01 5/23/2017 OU1EESB01-S-1.00- 1-2 REG	OU1EESB02 5/23/2017 OU1EESB02-S-0.17- 0.17-0.5 REG	OU1EESB02 5/23/2017 OU1EESB02-S-0.50- 0.5-1 REG	OU1EESB02 5/23/2017 OU1EESB02-S-1.00- 1-2 REG	OU1EESB03 5/24/2017 OU1EESB03-S-0.17- 0.17-0.5 REG	OU1EESB03 5/24/2017 OU1EESB03-S-0.50- 0.5-1 REG	OU1EESB03 5/24/2017 OU1EESB03-S-1.00- 1-2 REG	OU1EESB04 6/1/2017 OU1EESB04-S-0.17- 0.17-0.5 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.007 J	0.006 J	0.004 J	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	< 0.003	< 0.003	< 0.003	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.003	< 0.003	< 0.003	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.077	0.06	0.04	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	0.001 J	0.001 J	0.002 J	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	< 0.019	< 0.019	< 0.018	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.0009	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB01 5/23/2017 OU1EESB01-S-0.17- 0.17-0.5 REG	OU1EESB01 5/23/2017 OU1EESB01-S-0.50- 0.5-1 REG	OU1EESB01 5/23/2017 OU1EESB01-S-1.00- 1-2 REG	OU1EESB02 5/23/2017 OU1EESB02-S-0.17- 0.17-0.5 REG	OU1EESB02 5/23/2017 OU1EESB02-S-0.50- 0.5-1 REG	OU1EESB02 5/23/2017 OU1EESB02-S-1.00- 1-2 REG	OU1EESB03 5/24/2017 OU1EESB03-S-0.17- 0.17-0.5 REG	OU1EESB03 5/24/2017 OU1EESB03-S-0.50- 0.5-1 REG	OU1EESB03 5/24/2017 OU1EESB03-S-1.00- 1-2 REG	OU1EESB04 6/1/2017 OU1EESB04-S-0.17- 0.17-0.5 REG	
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085	
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.35	< 0.33	< 0.32	< 0.36	< 0.37	< 0.37	< 0.39	< 0.35	< 0.35	< 0.38	
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085	
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.007	< 0.007	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008	
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.011 J	0.01 J	0.008 J	0.009 J	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	< 0.004	
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085	
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.19	< 0.18	< 0.18	< 0.2	< 0.21	< 0.21	< 0.22	< 0.19	< 0.2	< 0.21	
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.039	< 0.037	< 0.036	< 0.04	< 0.041	< 0.041	< 0.044	< 0.039	< 0.039	< 0.042	
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085	
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.19	< 0.18	< 0.18	< 0.2	< 0.21	< 0.21	< 0.22	< 0.19	< 0.2	< 0.21	
Acenaphthene	83-32-9	98	20	20	100	100	0.045	0.023	0.011 J	0.038	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	
Acenaphthylene	208-96-8	107	--	100	100	100	0.054	0.017 J	0.022	0.027	0.008 J	0.005 J	< 0.004	< 0.004	< 0.004	0.007 J	
Acetophenone	98-86-2	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.020	< 0.021	< 0.021	< 0.022	< 0.019	< 0.020	< 0.021	
Anthracene	120-12-7	1000	--	100	100	100	0.22	0.06	0.047	0.19	0.009 J	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J	
Atrazine	1912-24-9	--	--	--	--	--	< 0.039	< 0.037	< 0.036	< 0.040	< 0.041	< 0.041	< 0.044	< 0.039	< 0.039	< 0.042	
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	0.14 J	< 0.077	< 0.078	< 0.085	
Benzo(a)anthracene	56-55-3	1	--	1	1	1	1.2	0.22	0.25	0.41	0.034	0.009 J	0.017 J	0.004 J	< 0.004	0.008 J	
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	1.6	0.26	0.29	0.39	0.042	0.011 J	0.021 J	0.005 J	0.005 J	0.011 J	
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	2.3	0.4	0.45	0.56	0.069	0.015 J	0.035	0.009 J	0.008 J	0.021 J	
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	1.2	0.18	0.22	0.24	0.035	0.008 J	0.019 J	< 0.004	< 0.004	0.01 J	
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.98	0.15	0.17	0.21	0.023	0.009 J	0.015 J	< 0.004	< 0.004	0.008 J	
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021	
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.077	< 0.074	0.073 J	< 0.079</							

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB01 5/23/2017 OU1EESB01-S-0.17- 0.17-0.5 REG	OU1EESB01 5/23/2017 OU1EESB01-S-0.50- 0.5-1 REG	OU1EESB01 5/23/2017 OU1EESB01-S-1.00- 1-2 REG	OU1EESB02 5/23/2017 OU1EESB02-S-0.17- 0.17-0.5 REG	OU1EESB02 5/23/2017 OU1EESB02-S-0.50- 0.5-1 REG	OU1EESB02 5/23/2017 OU1EESB02-S-1.00- 1-2 REG	OU1EESB03 5/24/2017 OU1EESB03-S-0.17- 0.17-0.5 REG	OU1EESB03 5/24/2017 OU1EESB03-S-0.50- 0.5-1 REG	OU1EESB03 5/24/2017 OU1EESB03-S-1.00- 1-2 REG	OU1EESB04 6/1/2017 OU1EESB04-S-0.17- 0.17-0.5 REG	
Polychlorinated Biphenyls																	
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0047	< 0.0042	< 0.0043	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.006	< 0.0053	< 0.0054	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.01	< 0.0092	< 0.0095	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0038	< 0.0039	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0038	< 0.0039	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0038	< 0.0039	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0064	< 0.0057	< 0.0058	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0038	< 0.0039	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0038	< 0.0039	--
Pesticides																	
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	< 0.00043	< 0.00038	< 0.00038	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	0.0016 J	< 0.00038	< 0.00038	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	< 0.00046	< 0.0004	< 0.00041	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	< 0.00039	< 0.00034	< 0.00035	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	< 0.00059	< 0.00052	0.00059 JP	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	< 0.00043	< 0.00038	< 0.00038	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00029	< 0.00025	< 0.00026	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00043	< 0.00038	< 0.00038	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00043	< 0.00038	< 0.00038	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	< 0.00043	< 0.00038	< 0.00038	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00043	< 0.00038	< 0.00038	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00078	< 0.00069	< 0.0007	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	< 0.0022	< 0.002	< 0.002	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.018	< 0.016	< 0.016	--
Metals																	
Aluminum	7429-90-5	--	10000	--	--	--	16,700	10,400	18,300	14,800	17,900	17,100	13,700	14,100	15,100	18,600	
Antimony	7440-36-0	--	12	--	--	--	0.263 J	0.237 J	0.231 J	0.166 J	0.192 J	0.150 J	0.160 J	0.101 J	0.0970 J	0.156 J	
Arsenic	7440-38-2	16	13	13	16	16	39.4	21.5	34.8	8.94	7.79	7.18	5.15	4.62	5.88	6.92	
Barium	7440-39-3	820	433	350	350	400	58	42.3	56.3	55.4	75.8	71.2	62.2	51.1	52.7	72.3	
Beryllium	7440-41-7	47	10	7.2	14	72	0.769	0.52	1.09	0.814	0.859	0.733	0.547	0.446	0.525	0.835	
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.119 J	0.0806 J	0.206 J	0.219	0.27	0.133 J	0.297	0.0886 J	0.113 J	0.152 J	
Calcium	7440-70-2	--	10000	--	--	--	2,420	49,100	10,900	1,470	1,120	1,110	2,000	825	949	630	
Chromium	7440-47-3	--	--	30	36	180	19.5	12.3	29.3	17.2	17	17.7	14.8	15.3	17.6	17.6	
Cobalt	7440-48-4	--	20	--	30	--	10.2	6.61	13.2	8.05	8.06	9.38	7.78	7.39	8.83	9.97	
Copper	7440-50-8	1720	50	50	270	270	29.6	16.7	30.6	16.3	15	16.9	16.5	10.2	13.2	19.1	
Iron	7439-89-6	--	--	--	2000	--	26,100	16,800	34,200	23,900	21,000	22,500	18,200	17,400	21,500	25,800	
Lead	7439-92-1	450	63	63	400	400	29.8	28.2	36.9	21.3	17.2	18	15.3	9.06	9.98	21.4	
Magnesium	7439-95-4	--	--	--	--	--	6,220	33,800	12,800	4,990	4,010	4,650	3,680	3,430	3,760	4,610	
Manganese	7439-96-5	2000	1600	1600	2000	2000	535	419	741	512	566	519	437	306	421	879	
Nickel	7440-02-0	130	30	30	140	310	23.4	13.9	29	17.1	17.4	17.2	17.1	14.1	15.8	21.1	
Potassium	7440-09-7	--	--	--	--	--	1,760	1,270	2,000	1,440	1,310	1,380	1,600	1,410	1,520	1,450	
Selenium	7782-49-2	4	3.9	3.9	36	180	0.231 J	0.146 J	0.164 J	0.230 J	0.256 J	0.207 J	0.216 J	0.187 J	0.153 J	0.404 J	
Silver	7440-22-4	8.3	2	2	36	180	0.0516 J	0.0284 J	0.0465 J	0.0787 J	0.0773 J	0.0562 J	0.0690 J	0.0535 J	0.0346 J	0.0705 J	
Sodium	7440-23-5	--	--	--	--	--	53.7 J	72.4 J	67.7 J	45.9 J	43.6 J	51.3 J	50.2 J	53.0 J	57.0 J	39.5 J	
Thallium	7440-28-0	--	5	--	--	--	0.111 J	0.0760 J	0.0948 J	0.108 J	0.152 J	0.133 J	0.131 J	0.126 J	0.131 J	0.166 J	
Vanadium	7440-62-2	--	39	--	100	--	24.5	17.3	29.8	23	23.5	24.1	23.3	20.6	23.5	26.8	
Zinc	7440-66-6	2480	109	109	2200	10000	117	66.6	161	80.5	103	79.7	64.1	53	53.1	78.6	
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0894 J	0.118	0.108	0.111 J	0.156	0.0666 J	0.2	0.0650 J	0.0391 J	0.0673 J	

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB04 6/1/2017 OU1EESB04-S-0.50- 0.5-1 REG	OU1EESB04 6/1/2017 OU1EESB04-S-1.00- 1-2 REG	OU1EESB05 6/1/2017 OU1EESB05-S-0.17- 0.17-0.5 REG	OU1EESB05 6/1/2017 OU1EESB05-S-0.50- 0.5-1 REG	OU1EESB05 6/1/2017 OU1EESB05-S-1.00- 1-2 REG	OU1EESB06 5/31/2017 OU1EESB06-S-0.17- 0.17-0.5 REG	OU1EESB06 5/31/2017 OU1EESB06-S-0.50- 0.5-1 REG	OU1EESB06 5/31/2017 OU1EESB06-S-1.00- 1-2 REG	OU1EESB07 5/31/2017 OU1EESB07-S-0.17- 0.17-0.5 REG	OU1EESB07 5/31/2017 OU1EESB07-S-0.50- 0.5-1 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB04 6/1/2017 OU1EESB04-S-0.50- 0.5-1 REG	OU1EESB04 6/1/2017 OU1EESB04-S-1.00- 1-2 REG	OU1EESB05 6/1/2017 OU1EESB05-S-0.17- 0.17-0.5 REG	OU1EESB05 6/1/2017 OU1EESB05-S-0.50- 0.5-1 REG	OU1EESB05 6/1/2017 OU1EESB05-S-1.00- 1-2 REG	OU1EESB05 5/31/2017 OU1EESB05-S-0.17- 0.17-0.5 REG	OU1EESB06 5/31/2017 OU1EESB06-S-0.50- 0.5-1 REG	OU1EESB06 5/31/2017 OU1EESB06-S-1.00- 1-2 REG	OU1EESB07 5/31/2017 OU1EESB07-S-0.17- 0.17-0.5 REG	OU1EESB07 5/31/2017 OU1EESB07-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.12	< 0.13	< 0.13	< 0.12	< 0.12	< 0.14	< 0.13	< 0.14	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.083	< 0.080	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.37	< 0.36	< 0.4	< 0.38	< 0.35	< 0.37	< 0.42	< 0.38	< 0.42	< 0.36
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009	< 0.009	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	0.022	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	0.005 J	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.12	< 0.13	< 0.13	< 0.12	< 0.12	< 0.14	< 0.13	< 0.14	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.21	< 0.2	< 0.22	< 0.21	< 0.2	< 0.2	< 0.23	< 0.21	< 0.23	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.041	< 0.04	< 0.045	< 0.042	< 0.039	< 0.041	< 0.047	< 0.042	< 0.047	< 0.04
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.21	< 0.2	< 0.22	< 0.21	< 0.2	< 0.2	< 0.23	< 0.21	< 0.23	< 0.2
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	0.008 J	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.021	< 0.020	< 0.022	< 0.021	< 0.020	< 0.020	< 0.023	< 0.021	< 0.023	< 0.020
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J	< 0.005	< 0.004	0.008 J	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.041	< 0.040	< 0.045	< 0.042	< 0.039	< 0.041	< 0.047	< 0.042	< 0.047	< 0.040
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.083	< 0.080	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	0.12 J	< 0.081
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	< 0.004	0.008 J	< 0.004	< 0.004	0.007 J	< 0.005	< 0.004	0.022 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	< 0.004	0.009 J	< 0.004	< 0.004	0.01 J	< 0.005	< 0.004	0.022 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.007 J	< 0.004	0.018 J	0.005 J	< 0.004	0.014 J	< 0.005	< 0.004	0.042	0.006 J
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	< 0.004	0.007 J	0.005 J	< 0.004	0.008 J	< 0.005	< 0.004	0.016 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004	0.005 J	< 0.005	< 0.004	0.018 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
bis(2-Ethylhexylhex																

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB04 6/1/2017 OU1EESB04-S-0.50- 0.5-1 REG	OU1EESB04 6/1/2017 OU1EESB04-S-1.00- 1-2 REG	OU1EESB05 6/1/2017 OU1EESB05-S-0.17- 0.17-0.5 REG	OU1EESB05 6/1/2017 OU1EESB05-S-0.50- 0.5-1 REG	OU1EESB05 6/1/2017 OU1EESB05-S-1.00- 1-2 REG	OU1EESB06 5/31/2017 OU1EESB06-S-0.17- 0.17-0.5 REG	OU1EESB06 5/31/2017 OU1EESB06-S-0.50- 0.5-1 REG	OU1EESB06 5/31/2017 OU1EESB06-S-1.00- 1-2 REG	OU1EESB07 5/31/2017 OU1EESB07-S-0.17- 0.17-0.5 REG	OU1EESB07 5/31/2017 OU1EESB07-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	20,100	19,400	19,700	19,400	16,900	21,600	38,000	41,500	18,400	17,000
Antimony	7440-36-0	--	12	--	--	--	0.147 J	< 0.0829	0.183 J	0.135 J	< 0.0824	0.144 J	0.224 J	0.161 J	0.232 J	< 0.0904
Arsenic	7440-38-2	16	13	13	16	16	5.51	5.14	6.05	5.77	6.31	6.85	11.3	11.9	6.66	5.88
Barium	7440-39-3	820	433	350	350	400	77.7	72.6	79.9	72.2	61.6	95.7	212	225	53.2	56.7
Beryllium	7440-41-7	47	10	7.2	14	72	1.03	0.877	0.774	0.716	0.861	0.958	2.03	1.95	0.567	0.798
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.125 J	0.0893 J	0.0436 J	< 0.0426	0.0525 J	0.145 J	0.313	0.282	< 0.0482	0.104 J
Calcium	7440-70-2	--	10000	--	--	--	414	386	709	736	1,020	1,110	2,160	2,420	386	626
Chromium	7440-47-3	--	--	30	36	180	18.4	17	19.4	20.4	22.3	22	38.4	44.6	19.4	18.9
Cobalt	7440-48-4	--	20	--	30	--	9.77	8.4	6.38	8.82	7.45	6.89	12.9	14.5	5.67	9.78
Copper	7440-50-8	1720	50	50	270	270	14.6	13.8	11.7	11.3	17.7	16	32.4	42.9	14	17.9
Iron	7439-89-6	--	--	--	2000	--	24,500	22,300	20,400	21,800	28,000	22,600	38,700	43,600	19,600	25,800
Lead	7439-92-1	450	63	63	400	400	13.3	11.4	17.8	17	14	22.2	21.5	19	38.3	14.7
Magnesium	7439-95-4	--	--	--	--	--	4,550	3,930	3,700	3,730	5,630	4,530	6,850	8,210	3,890	5,260
Manganese	7439-96-5	2000	1600	1600	2000	2000	987	910	247	440	253	302	1,580	1,340	193	463
Nickel	7440-02-0	130	30	30	140	310	22.1	19.5	17.2	17.1	22.7	19.2	36.4	40.1	16.2	20.9
Potassium	7440-09-7	--	--	--	--	--	1,360	1,070	1,080	1,110	1,400	2,210	4,380	5,550	1,820	1,750
Selenium	7782-49-2	4	3.9	3.9	36	180	0.373 J	0.302 J	0.459 J	0.509 J	0.223 J	0.555 J	1.09	0.817 J	0.598 J	0.314 J
Silver	7440-22-4	8.3	2	2	36	180	0.123 J	0.0636 J	0.0607 J	0.0582 J	0.0232 J	0.118 J	0.254	0.322	0.131 J	0.0552 J
Sodium	7440-23-5	--	--	--	--	--	39.6 J	47.6 J	50.7 J	52.2 J	52.3 J	62.4 J	178	282	48.2 J	48.8 J
Thallium	7440-28-0	--	5	--	--	--	0.146 J	0.153 J	0.216	0.200 J	0.115 J	0.208 J	0.328	0.364	0.194 J	0.128 J
Vanadium	7440-62-2	--	39	--	100	--	25.3	24.6	29.8	30.5	27.9	31	48.6	56.2	32.6	23.4
Zinc	7440-66-6	2480	109	109	2200	10000	78.9	75.5	72.7	65.7	62.9	81.4	120	134	76.5	66
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0427 J	0.0347 J	0.0623 J	0.0321 J	0.0243 J	0.0520 J	0.0717 J	0.0594 J	0.0562 J	0.0401 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB07 5/31/2017 OU1EESB07-S-1.00- 1-2 REG	OU1EESB08 5/23/2017 OU1EESB08-S-0.17- 0.17-0.5 REG	OU1EESB08 5/23/2017 OU1EESB08-S-0.50- 0.5-1 REG	OU1EESB08 5/23/2017 OU1EESB08-S-1.00- 1-2 REG	OU1EESB09 5/23/2017 OU1EESB09-S-0.17- 0.17-0.5 REG	OU1EESB09 5/23/2017 OU1EESB09-S-0.50- 0.5-1 REG	OU1EESB09 5/23/2017 OU1EESB09-S-1.00- 1-2 REG	OU1EESB10 5/23/2017 OU1EESB10-S-0.17- 0.17-0.5 REG	OU1EESB10 5/23/2017 OU1EESB10-S-0.50- 0.5-1 REG	OU1EESB10 5/23/2017 OU1EESB10-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB07 5/31/2017 OU1EESB07-S-1.00- 1-2 REG	OU1EESB08 5/23/2017 OU1EESB08-S-0.17- 0.17-0.5 REG	OU1EESB08 5/23/2017 OU1EESB08-S-0.50- 0.5-1 REG	OU1EESB08 5/23/2017 OU1EESB08-S-1.00- 1-2 REG	OU1EESB09 5/23/2017 OU1EESB09-S-0.17- 0.17-0.5 REG	OU1EESB09 5/23/2017 OU1EESB09-S-0.50- 0.5-1 REG	OU1EESB09 5/23/2017 OU1EESB09-S-1.00- 1-2 REG	OU1EESB10 5/23/2017 OU1EESB10-S-0.17- 0.17-0.5 REG	OU1EESB10 5/23/2017 OU1EESB10-S-0.50- 0.5-1 REG	OU1EESB10 5/23/2017 OU1EESB10-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.078	< 0.081	< 0.080	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.090
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.35	< 0.37	< 0.36	< 0.35	< 0.33	< 0.35	< 0.37	< 0.37	< 0.39	< 0.4
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.008	< 0.008	< 0.008	< 0.007	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	0.008 J	< 0.004	< 0.004	0.007 J	0.005 J	< 0.004	0.013 J	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.2	< 0.2	< 0.19	< 0.18	< 0.2	< 0.2	< 0.2	< 0.22	< 0.22
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.039	< 0.041	< 0.04	< 0.038	< 0.036	< 0.039	< 0.041	< 0.041	< 0.043	< 0.045
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.2	< 0.2	< 0.19	< 0.18	< 0.2	< 0.2	< 0.2	< 0.22	< 0.22
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	0.017 J	< 0.004	< 0.004	0.047	0.019 J	0.005 J	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	0.018 J	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.020	< 0.020	< 0.020	< 0.019	< 0.018	< 0.020	< 0.020	< 0.020	< 0.022	< 0.022
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	0.047	< 0.004	< 0.004	0.076	0.025	0.007 J	0.005 J	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.039	< 0.041	< 0.040	< 0.038	< 0.036	< 0.039	< 0.041	< 0.041	< 0.043	< 0.045
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.078	< 0.081	< 0.080	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.090
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.083	0.006 J	< 0.004	0.25	0.11	0.023	0.009 J	0.005 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.077	0.009 J	< 0.004	0.27	0.11	0.029	0.009 J	< 0.004	0.009 J
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	0.098	0.014 J	0.005 J	0.4	0.16	0.041	0.016 J	0.008 J	0.009 J
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.044	0.007 J	< 0.004	0.17	0.069	0.018 J	0.009 J	< 0.004	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.049	0.006 J	< 0.004	0.14	0.063	0.021 J	< 0.004	0.005 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.078	< 0.081	< 0.08	< 0.077	< 0.07					

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB07 5/31/2017 OU1EESB07-S-1.00- 1-2 REG	OU1EESB08 5/23/2017 OU1EESB08-S-0.17- 0.17-0.5 REG	OU1EESB08 5/23/2017 OU1EESB08-S-0.50- 0.5-1 REG	OU1EESB08 5/23/2017 OU1EESB08-S-1.00- 1-2 REG	OU1EESB09 5/23/2017 OU1EESB09-S-0.17- 0.17-0.5 REG	OU1EESB09 5/23/2017 OU1EESB09-S-0.50- 0.5-1 REG	OU1EESB09 5/23/2017 OU1EESB09-S-1.00- 1-2 REG	OU1EESB10 5/23/2017 OU1EESB10-S-0.17- 0.17-0.5 REG	OU1EESB10 5/23/2017 OU1EESB10-S-0.50- 0.5-1 REG	OU1EESB10 5/23/2017 OU1EESB10-S-1.00- 1-2 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	22,000	17,600	14,100	16,000	13,100	18,700	17,800	16,800	17,400	18,000
Antimony	7440-36-0	--	12	--	--	--	0.159 J	0.341	0.240 J	0.149 J	0.156 J	0.192 J	0.124 J	0.835	0.225 J	0.248 J
Arsenic	7440-38-2	16	13	13	16	16	8.99	88.5	13.6	8.2	9.81	8.68	8.34	7	6.93	7.65
Barium	7440-39-3	820	433	350	350	400	112	105	75.1	67.9	48.1	69.5	72.9	50.3	61.3	56.7
Beryllium	7440-41-7	47	10	7.2	14	72	1.04	0.84	0.636	0.629	0.486	0.935	0.69	0.735	0.886	0.77
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.375	0.254	0.115 J	0.0523 J	0.135 J	0.134 J	0.0912 J	0.0657 J	0.0935 J	0.0738 J
Calcium	7440-70-2	--	10000	--	--	--	1,140	1,540	1,100	786	29,300	1,360	863	298	286	239
Chromium	7440-47-3	--	--	30	36	180	26.4	18.3	13.7	16.4	13.7	16.7	16.5	16.9	15.1	17.2
Cobalt	7440-48-4	--	20	--	30	--	16.5	9.73	7.43	8.12	9.15	9.17	9.99	10.4	9.44	11.2
Copper	7440-50-8	1720	50	50	270	270	33.9	20.1	12.8	12.4	27.4	15.4	15.7	18.7	16.3	20.8
Iron	7439-89-6	--	--	--	2000	--	38,400	23,200	17,100	20,700	24,900	23,800	24,000	24,900	24,300	26,300
Lead	7439-92-1	450	63	63	400	400	17.6	25.8	12.5	9.23	27.8	15.2	10.5	16.1	12.4	12.9
Magnesium	7439-95-4	--	--	--	--	--	8,340	4,910	3,270	3,940	16,500	4,720	4,630	4,340	4,200	4,970
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,680	1,050	753	465	1,110	827	491	748	882	753
Nickel	7440-02-0	130	30	30	140	310	39.1	22.6	15.3	16.1	21.4	19.3	19.1	19.2	18.5	20.8
Potassium	7440-09-7	--	--	--	--	--	2,820	1,780	1,210	1,260	1,460	1,260	1,280	1,290	1,130	1,610
Selenium	7782-49-2	4	3.9	3.9	36	180	0.150 J	0.449 J	0.293 J	0.297 J	0.159 J	0.343 J	0.227 J	0.320 J	0.260 J	0.219 J
Silver	7440-22-4	8.3	2	2	36	180	< 0.0266	0.158 J	0.0362 J	< 0.0255	0.0371 J	0.0712 J	0.0595 J	0.0473 J	0.0632 J	0.0403 J
Sodium	7440-23-5	--	--	--	--	--	89.6 J	46.5 J	44.6 J	47.7 J	53.7 J	47.0 J	44.5 J	30.7 J	31.8 J	38.5 J
Thallium	7440-28-0	--	5	--	--	--	0.179 J	0.169	0.123 J	0.140 J	0.0799 J	0.144 J	0.133 J	0.118 J	0.132 J	0.139 J
Vanadium	7440-62-2	--	39	--	100	--	31.4	29.5	19.4	21.9	21.4	25	24.1	26.1	22.3	25.1
Zinc	7440-66-6	2480	109	109	2200	10000	80	87.6	59.5	61.6	71.2	79.6	67.7	64.9	69.8	70.9
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0271 J	0.0864 J	0.0578 J	0.0234 J	0.0418 J	0.0338 J	0.0318 J	0.0531 J	0.0391 J	0.0406 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB11 5/24/2017 OU1EESB11-S-0.17- 0.17-0.5 REG	OU1EESB11 5/24/2017 OU1EESB11-S-0.50- 0.5-1 REG	OU1EESB11 5/24/2017 OU1EESB11-S-1.00- 1-2 REG	OU1EESB11 5/24/2017 OU1EESB11-SD-0.50- 0.5-1 FD	OU1EESB12 5/24/2017 OU1EESB12-S-0.17- 0.17-0.5 REG	OU1EESB12 5/24/2017 OU1EESB12-S-0.50- 0.5-1 REG	OU1EESB12 5/24/2017 OU1EESB12-S-1.00- 1-2 REG	OU1EESB13 6/1/2017 OU1EESB13-S-0.17- 0.17-0.5 REG	OU1EESB13 6/1/2017 OU1EESB13-S-0.50- 0.5-1 REG	OU1EESB13 6/1/2017 OU1EESB13-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	< 0.001	< 0.001	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.016	0.01 J	< 0.005	0.007 J	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	< 0.004	< 0.004	< 0.004	< 0.004	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.004	< 0.004	< 0.004	< 0.004	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.26	0.16	0.066	0.12	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0007	< 0.0006	< 0.0006	< 0.0007	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0007	< 0.0006	< 0.0006	< 0.0007	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	< 0.028	< 0.026	< 0.025	< 0.029	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.003	< 0.003	< 0.002	< 0.003	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB11 5/24/2017 OU1EESB11-S-0.17- 0.17-0.5 REG	OU1EESB11 5/24/2017 OU1EESB11-S-0.50- 0.5-1 REG	OU1EESB11 5/24/2017 OU1EESB11-S-1.00- 1-2 REG	OU1EESB11 5/24/2017 OU1EESB11-SD-0.50- 0.5-1 FD	OU1EESB12 5/24/2017 OU1EESB12-S-0.17- 0.17-0.5 REG	OU1EESB12 5/24/2017 OU1EESB12-S-0.50- 0.5-1 REG	OU1EESB12 5/24/2017 OU1EESB12-S-1.00- 1-2 REG	OU1EESB13 6/1/2017 OU1EESB13-S-0.17- 0.17-0.5 REG	OU1EESB13 6/1/2017 OU1EESB13-S-0.50- 0.5-1 REG	OU1EESB13 6/1/2017 OU1EESB13-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.14	< 0.13	< 0.14	< 0.16	< 0.16	< 0.14	< 0.12	< 0.14	< 0.12	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.093	< 0.088	< 0.092	< 0.10	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.023	< 0.023	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.42	< 0.4	< 0.41	< 0.47	< 0.49	< 0.41	< 0.37	< 0.43	< 0.37	< 0.37
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.093	< 0.088	< 0.092	< 0.1	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.009	< 0.009	< 0.01	< 0.011	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.005	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.14	< 0.13	< 0.14	< 0.16	< 0.16	< 0.14	< 0.12	< 0.14	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.093	< 0.088	< 0.092	< 0.1	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.23	< 0.22	< 0.23	< 0.26	< 0.27	< 0.23	< 0.21	< 0.24	< 0.21	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.046	< 0.044	< 0.046	< 0.052	< 0.054	< 0.046	< 0.042	< 0.047	< 0.042	< 0.041
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.093	< 0.088	< 0.092	< 0.1	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.23	< 0.22	< 0.23	< 0.26	< 0.27	< 0.23	< 0.21	< 0.24	< 0.21	< 0.2
Acenaphthene	83-32-9	98	20	20	100	100	< 0.005	< 0.004	< 0.005	0.015 J	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.005	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	0.009 J	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.020
Anthracene	120-12-7	1000	--	100	100	100	0.006 J	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	0.007 J	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.046	< 0.044	< 0.046	< 0.052	< 0.054	< 0.046	< 0.042	< 0.047	< 0.042	< 0.041
Benzaldehyde	100-52-7	--	--	--	--	--	0.13 J	< 0.088	< 0.092	< 0.10	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.021 J	0.007 J	< 0.005	0.008 J	0.009 J	< 0.005	< 0.004	0.017 J	0.005 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.034	0.013 J	< 0.005	0.012 J	0.013 J	< 0.005	< 0.004	0.022 J	0.008 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.048	0.015 J	< 0.005	0.013 J	0.018 J	< 0.005	0.005 J	0.034	0.011 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.02 J	0.005 J	< 0.005	0.006 J	0.01 J	< 0.005	< 0.004	0.018 J	0.006 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.016 J	0.005 J	< 0.005	< 0.005	0.009 J	< 0.005	< 0.004	0.013 J	0.005 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB11 5/24/2017 OU1EESB11-S-0.17- 0.17-0.5 REG	OU1EESB11 5/24/2017 OU1EESB11-S-0.50- 0.5-1 REG	OU1EESB11 5/24/2017 OU1EESB11-S-1.00- 1-2 REG	OU1EESB11 5/24/2017 OU1EESB11-SD-0.50- 0.5-1 FD	OU1EESB12 5/24/2017 OU1EESB12-S-0.17- 0.17-0.5 REG	OU1EESB12 5/24/2017 OU1EESB12-S-0.50- 0.5-1 REG	OU1EESB12 5/24/2017 OU1EESB12-S-1.00- 1-2 REG	OU1EESB13 6/1/2017 OU1EESB13-S-0.17- 0.17-0.5 REG	OU1EESB13 6/1/2017 OU1EESB13-S-0.50- 0.5-1 REG	OU1EESB13 6/1/2017 OU1EESB13-S-1.00- 1-2 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0052	< 0.0045	< 0.0044
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0066	< 0.0057	< 0.0057
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.012	< 0.01	< 0.0098
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0048	< 0.0041	< 0.0041
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0048	< 0.0041	< 0.0041
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0048	< 0.0041	< 0.0041
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0071	< 0.0061	< 0.006
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0048	< 0.0041	< 0.0041
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0048	< 0.0041	< 0.0041
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	0.00082 JP	< 0.00041	< 0.00041
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	0.0036	0.0011 J	0.00075 J
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	0.0023 J	0.00045 JP	< 0.00043
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	< 0.00024	< 0.00021	< 0.00021
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	< 0.00024	< 0.00021	< 0.00021
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	0.0003 J	< 0.00021	< 0.00021
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	< 0.00043	< 0.00037	< 0.00037
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	< 0.00065	< 0.00056	< 0.00055
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	< 0.00047	< 0.00041	< 0.00041
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00032	< 0.00027	< 0.00027
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00047	< 0.00041	< 0.00041
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00047	< 0.00041	< 0.00041
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	< 0.00047	< 0.00041	< 0.00041
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00047	< 0.00041	< 0.00041
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00086	< 0.00075	< 0.00074
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	< 0.00024	< 0.00021	< 0.00021
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	< 0.00024	< 0.00021	< 0.00021
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	< 0.00024	< 0.00021	< 0.00021
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	< 0.00024	< 0.00021	< 0.00021
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	< 0.0024	< 0.0021	< 0.0021
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.02	< 0.017	< 0.017
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	13,200	16,600	18,200	21,300	18,000	14,700	16,200	18,500	18,100	18,500
Antimony	7440-36-0	--	12	--	--	--	0.397	0.254 J	0.152 J	0.218 J	0.389 J	0.209 J	0.171 J	0.215 J	0.136 J	0.185 J
Arsenic	7440-38-2	16	13	13	16	16	6.45	5.65	7.6	7.51	6.19	4.54	5.94	7.5	6.87	8.92
Barium	7440-39-3	820	433	350	350	400	53.8	69.9	89.5	90.3	61.3	52.4	55.2	50.3	50.2	52.4
Beryllium	7440-41-7	47	10	7.2	14	72	0.679	0.966	0.775	1.28	0.77	0.65	0.546	0.806	0.625	0.675
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0780 J	0.0833 J	0.0686 J	0.120 J	0.133 J	0.0688 J	0.0573 J	0.128 J	0.117 J	0.127 J
Calcium	7440-70-2	--	10000	--	--	--	698	443	317	509	669	315	346	412	390	280
Chromium	7440-47-3	--	--	30	36	180	12.1	14	17.9	18.1	17.5	13.9	17.5	18.6	19.8	21.2
Cobalt	7440-48-4	--	20	--	30	--	6.83	7.45	12	10.3	8.59	7.12	9.51	10.4	10.4	12.1
Copper	7440-50-8	1720	50	50	270	270	12.8	11.3	17.2	15.6	14.6	11.1	15.5	22.7	23	32.2
Iron	7439-89-6	--	--	--	2000	--	15,100	17,700	25,700	23,300	20,800	18,400	23,300	27,300	30,700	33,300
Lead	7439-92-1	450	63	63	400	400	60.8	14.5	13.5	18.4	22.7	10.6	11.5	27.7	16.7	15.6
Magnesium	7439-95-4	--	--	--	--	--	2,680	3,080	4,710	4,000	3,850	3,270	4,200	4,940	5,700	6,060
Manganese	7439-96-5	2000	1600	1600	2000	2000	589	985	777	1,290	713	587	543	701	687	658
Nickel	7440-02-0	130	30	30	140	310	15.1	15	20.9	19.2	17.6	14.7	17.8	22.5	23.6	27.9
Potassium	7440-09-7	--	--	--	--	--	1,030	1,120	1,780	1,540	1,690	1,390	1,810	1,660	1,770	1,990
Selenium	7782-49-2	4	3.9	3.9	36	180	0.566 J	0.451 J	0.261 J	0.519 J	0.474 J	0.288 J	0.242 J	0.524 J	0.240 J	0.203 J
Silver	7440-22-4	8.3	2	2	36	180	0.128 J	0.103 J	0.0748 J	0.117 J	0.0989 J	0.0595 J	0.0363 J	0.0972 J	0.0311 J	< 0.0281
Sodium	7440-23-5	--	--	--	--	--	49.9 J	42.4 J	48.9 J	47.9 J	53.3 J	43.6 J	44.6 J	35.1 J	36.9 J	38.9 J
Thallium	7440-28-0	--	5	--	--	--	0.162 J	0.127 J	0.139 J	0.171 J	0.178 J	0.138 J	0.124 J	0.158 J	0.118 J	0.120 J
Vanadium	7440-62-2	--	39	--	100	--	30.2	22.5	25.3	28	29.1	20.8	23.5	29.5	26.5	27.1
Zinc	7440-66-6	2480	109	109	2200	10000	55.8	62.8	67.1	78.1	77.3	60.4	76.4	80.8	74.8	90.2
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.103 J	0.0436 J	0.0337 J	0.0486 J	0.0736 J	0.0245 J	0.0304 J	0.0822 J	0.0542 J	0.0334 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB14 6/1/2017 OU1EESB14-S-0.17- 0.17-0.5 REG	OU1EESB14 6/1/2017 OU1EESB14-S-0.50- 0.5-1 REG	OU1EESB14 6/1/2017 OU1EESB14-S-1.00- 1-2 REG	OU1EESB15 6/1/2017 OU1EESB15-S-0.17- 0.17-0.5 REG	OU1EESB15 6/1/2017 OU1EESB15-S-0.50- 0.5-1 REG	OU1EESB15 6/1/2017 OU1EESB15-S-1.00- 1-2 REG	OU1EESB16 5/31/2017 OU1EESB16-S-0.17- 0.17-0.5 REG	OU1EESB16 5/31/2017 OU1EESB16-S-0.50- 0.5-1 REG	OU1EESB16 5/31/2017 OU1EESB16-S-1.00- 1-2 REG	OU1EESB17 5/31/2017 OU1EESB17-S-0.17- 0.17-0.5 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB14 6/1/2017 OU1EESB14-S-0.17- 0.17-0.5 REG	OU1EESB14 6/1/2017 OU1EESB14-S-0.50- 0.5-1 REG	OU1EESB14 6/1/2017 OU1EESB14-S-1.00- 1-2 REG	OU1EESB15 6/1/2017 OU1EESB15-S-0.17- 0.17-0.5 REG	OU1EESB15 6/1/2017 OU1EESB15-S-0.50- 0.5-1 REG	OU1EESB15 6/1/2017 OU1EESB15-S-1.00- 1-2 REG	OU1EESB16 5/31/2017 OU1EESB16-S-0.17- 0.17-0.5 REG	OU1EESB16 5/31/2017 OU1EESB16-S-0.50- 0.5-1 REG	OU1EESB16 5/31/2017 OU1EESB16-S-1.00- 1-2 REG	OU1EESB17 5/31/2017 OU1EESB17-S-0.17- 0.17-0.5 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13	< 0.14	< 0.14	< 0.12	< 0.13	< 0.14
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.4	< 0.39	< 0.35	< 0.38	< 0.38	< 0.42	< 0.42	< 0.37	< 0.38	< 0.41
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009	< 0.008	< 0.009	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.004	0.028	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	0.005 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13	< 0.14	< 0.14	< 0.12	< 0.13	< 0.14
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.22	< 0.22	< 0.2	< 0.21	< 0.21	< 0.23	< 0.23	< 0.2	< 0.21	< 0.23
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.044	< 0.044	< 0.039	< 0.042	< 0.042	< 0.046	< 0.046	< 0.041	< 0.043	< 0.045
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.22	< 0.22	< 0.2	< 0.21	< 0.21	< 0.23	< 0.23	< 0.2	< 0.21	< 0.23
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	0.07	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	0.005 J	< 0.004	< 0.004	0.01 J	< 0.004	< 0.005	0.005 J	< 0.004	< 0.004	0.013 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.022	< 0.022	< 0.020	< 0.021	< 0.021	< 0.023	< 0.023	< 0.020	< 0.021	< 0.023
Anthracene	120-12-7	1000	--	100	100	100	0.005 J	< 0.004	< 0.004	0.028	< 0.004	< 0.005	0.006 J	< 0.004	< 0.004	0.012 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.044	< 0.044	< 0.039	< 0.042	< 0.042	< 0.046	< 0.046	< 0.041	< 0.043	< 0.045
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	0.092 J
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.007 J	< 0.004	< 0.004	0.015 J	< 0.004	0.005 J	0.016 J	< 0.004	< 0.004	0.028
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.009 J	< 0.004	< 0.004	0.015 J	< 0.004	0.005 J	0.017 J	< 0.004	< 0.004	0.036
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.013 J	0.005 J	< 0.004	0.022	< 0.004	0.009 J	0.029	0.005 J	0.004 J	0.058
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.007 J	< 0.004	< 0.004	0.014 J	< 0.004	0.005 J	0.013 J	< 0.004	< 0.004	0.027
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.005 J	< 0.004	< 0.004	0.012 J	< 0.004	< 0.005	0.01 J	< 0.004	< 0.004	0.023 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
bis(2-Ethylhexyl)																

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB14 6/1/2017 OU1EESB14-S-0.17- 0.17-0.5 REG	OU1EESB14 6/1/2017 OU1EESB14-S-0.50- 0.5-1 REG	OU1EESB14 6/1/2017 OU1EESB14-S-1.00- 1-2 REG	OU1EESB15 6/1/2017 OU1EESB15-S-0.17- 0.17-0.5 REG	OU1EESB15 6/1/2017 OU1EESB15-S-0.50- 0.5-1 REG	OU1EESB15 6/1/2017 OU1EESB15-S-1.00- 1-2 REG	OU1EESB16 5/31/2017 OU1EESB16-S-0.17- 0.17-0.5 REG	OU1EESB16 5/31/2017 OU1EESB16-S-0.50- 0.5-1 REG	OU1EESB16 5/31/2017 OU1EESB16-S-1.00- 1-2 REG	OU1EESB17 5/31/2017 OU1EESB17-S-0.17- 0.17-0.5 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	17,500	18,000	16,600	19,100	23,300	21,700	17,000	17,300	20,900	22,800
Antimony	7440-36-0	--	12	--	--	--	< 0.107	< 0.124	< 0.0972	0.203 J	< 0.110	< 0.131	0.115 J	0.0867 J	< 0.125	0.401 J
Arsenic	7440-38-2	16	13	13	16	16	5.39	5.6	5.72	6.99	6.47	5.88	5.43	6.87	8.69	7.75
Barium	7440-39-3	820	433	350	350	400	72	86.2	67.9	65.1	78	59.4	58.2	65.1	92.7	93.9
Beryllium	7440-41-7	47	10	7.2	14	72	0.912	1.01	0.767	0.908	1.29	0.991	0.591	0.663	0.845	1.01
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.137 J	0.0926 J	0.0701 J	0.115 J	0.0800 J	0.0960 J	0.130 J	0.135 J	0.163 J	0.271
Calcium	7440-70-2	--	10000	--	--	--	432	344	262	472	414	389	1,390	1,200	1,770	385
Chromium	7440-47-3	--	--	30	36	180	15.1	14.8	14.9	15.7	17.2	20.8	17.4	20.2	25.2	21.9
Cobalt	7440-48-4	--	20	--	30	--	7.1	7.4	8.46	7.4	8.4	11.5	6.67	12.6	11.7	10.4
Copper	7440-50-8	1720	50	50	270	270	12.6	11.5	15.4	13.2	11.6	15.5	8.97	9.37	13.3	20.2
Iron	7439-89-6	--	--	--	2000	--	18,300	19,200	22,300	20,700	22,400	33,400	17,300	24,400	26,100	23,900
Lead	7439-92-1	450	63	63	400	400	13.3	11.1	10	20.1	31.3	15.4	25.9	13.2	16.2	48.8
Magnesium	7439-95-4	--	--	--	--	--	3,130	3,220	3,980	3,670	3,950	6,390	3,660	4,840	5,420	4,440
Manganese	7439-96-5	2000	1600	1600	2000	2000	979	1,050	815	647	968	689	200	593	680	469
Nickel	7440-02-0	130	30	30	140	310	16.6	18.9	19	18.5	19.4	26.9	14.6	21.6	22.4	21.3
Potassium	7440-09-7	--	--	--	--	--	889	926	971	911	1,150	1,060	1,220	1,220	2,380	1,860
Selenium	7782-49-2	4	3.9	3.9	36	180	0.433 J	0.319 J	0.252 J	0.534 J	0.370 J	0.286 J	0.409 J	0.291 J	0.387 J	0.750 J
Silver	7440-22-4	8.3	2	2	36	180	0.109 J	0.129 J	0.0677 J	0.147 J	0.149 J	0.0675 J	0.0808 J	0.0515 J	0.0505 J	0.163 J
Sodium	7440-23-5	--	--	--	--	--	30.1 J	28.7 J	24.1 J	37.8 J	44.6 J	36.6 J	58.3 J	48.2 J	64.3 J	78.5 J
Thallium	7440-28-0	--	5	--	--	--	0.150 J	0.120 J	0.119 J	0.157 J	0.155 J	0.113 J	0.162 J	0.135 J	0.167 J	0.244 J
Vanadium	7440-62-2	--	39	--	100	--	22.1	20.7	21.1	24.3	28.5	28.3	25.2	33.7	33.7	37.3
Zinc	7440-66-6	2480	109	109	2200	10000	65.7	66.6	59.2	78.3	69.3	78.7	67.4	60	72	113
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0535 J	0.0250 J	0.0382 J	0.0687 J	0.0270 J	0.0359 J	0.0668 J	0.0319 J	0.0370 J	0.111 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB17 5/31/2017 OU1EESB17-S-0.50- 0.5-1 REG	OU1EESB17 5/31/2017 OU1EESB17-S-1.00- 1-2 REG	OU1EESB18 5/23/2017 OU1EESB18-S-0.17- 0.17-0.5 REG	OU1EESB18 5/23/2017 OU1EESB18-S-0.50- 0.5-1 REG	OU1EESB18 5/23/2017 OU1EESB18-S-1.00- 1-2 REG	OU1EESB18 5/23/2017 OU1EESB18-SD-1.00- 1-2 FD	OU1EESB19 5/23/2017 OU1EESB19-S-0.17- 0.17-0.5 REG	OU1EESB19 5/23/2017 OU1EESB19-S-0.50- 0.5-1 REG	OU1EESB19 5/23/2017 OU1EESB19-S-1.00- 1-2 REG	OU1EESB20 5/24/2017 OU1EESB20-S-0.17- 0.17-0.5 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	0.014	0.015	< 0.004	0.005 J	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	< 0.003	< 0.004	< 0.003	< 0.003	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	< 0.003	< 0.004	< 0.003	< 0.003	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	0.16	0.18	0.048	0.055	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	< 0.0006	< 0.0007	< 0.0006	< 0.0005	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	< 0.0006	< 0.0007	< 0.0006	< 0.0005	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	< 0.022	< 0.027	< 0.022	< 0.02	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	< 0.002	< 0.003	< 0.002	< 0.002	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB17 5/31/2017 OU1EESB17-S-0.50- 0.5-1 REG	OU1EESB17 5/31/2017 OU1EESB17-S-1.00- 1-2 REG	OU1EESB18 5/23/2017 OU1EESB18-S-0.17- 0.17-0.5 REG	OU1EESB18 5/23/2017 OU1EESB18-S-0.50- 0.5-1 REG	OU1EESB18 5/23/2017 OU1EESB18-S-1.00- 1-2 REG	OU1EESB18 5/23/2017 OU1EESB18-SD-1.00- 1-2 FD	OU1EESB19 5/23/2017 OU1EESB19-S-0.17- 0.17-0.5 REG	OU1EESB19 5/23/2017 OU1EESB19-S-0.50- 0.5-1 REG	OU1EESB19 5/23/2017 OU1EESB19-S-1.00- 1-2 REG	OU1EESB20 5/24/2017 OU1EESB20-S-0.17- 0.17-0.5 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.12	< 0.12	< 0.15	< 0.12	< 0.12	< 0.16	< 0.11	< 0.13	< 0.71
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.10	< 0.074	< 0.088	< 0.47
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.39	< 0.35	< 0.37	< 0.44	< 0.36	< 0.35	< 0.47	< 0.33	< 0.4	< 2.1
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.008	< 0.008	< 0.01	< 0.008	< 0.008	< 0.01	< 0.007	< 0.009	< 0.047
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.004 J	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.098 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.12	< 0.12	< 0.15	< 0.12	< 0.12	< 0.16	< 0.11	< 0.13	< 0.71
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.22	< 0.19	< 0.21	< 0.25	< 0.2	< 0.2	< 0.26	< 0.19	< 0.22	< 1.2
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.043	< 0.039	< 0.041	< 0.049	< 0.04	< 0.039	< 0.052	< 0.037	< 0.044	< 0.24
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.22	< 0.19	< 0.21	< 0.25	< 0.2	< 0.2	< 0.26	< 0.19	< 0.22	< 1.2
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	0.054	< 0.004	< 0.004	0.76
Acenaphthylene	208-96-8	107	--	100	100	100	0.006 J	< 0.004	0.008 J	0.006 J	< 0.004	< 0.004	0.012 J	< 0.004	< 0.004	0.1 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.020	< 0.020	< 0.026	< 0.019	< 0.022	< 0.12
Anthracene	120-12-7	1000	--	100	100	100	0.006 J	< 0.004	0.004 J	< 0.005	< 0.004	< 0.004	0.15	< 0.004	< 0.004	1.5
Atrazine	1912-24-9	--	--	--	--	--	< 0.043	< 0.039	< 0.041	< 0.049	< 0.040	< 0.039	< 0.052	< 0.037	< 0.044	< 0.24
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.10	< 0.074	< 0.088	< 0.47
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.016 J	< 0.004	0.015 J	0.009 J	< 0.004	< 0.004	0.27	< 0.004	< 0.004	6.2
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.018 J	< 0.004	0.013 J	0.022	< 0.004	< 0.004	0.27	< 0.004	< 0.004	7
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.027	0.005 J	0.034	0.018 J	< 0.004	< 0.004	0.3	< 0.004	< 0.004	9.4
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.015 J	< 0.004	0.018 J	0.008 J	< 0.004	< 0.004	0.18	< 0.004	< 0.004	4.6
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.012 J	< 0.004	0.011 J	0.006 J	< 0.004	< 0.004	0.15	< 0.004	< 0.004	4
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.087									

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB17 5/31/2017 OU1EESB17-S-0.50- 0.5-1 REG	OU1EESB17 5/31/2017 OU1EESB17-S-1.00- 1-2 REG	OU1EESB18 5/23/2017 OU1EESB18-S-0.17- 0.17-0.5 REG	OU1EESB18 5/23/2017 OU1EESB18-S-0.50- 0.5-1 REG	OU1EESB18 5/23/2017 OU1EESB18-S-1.00- 1-2 REG	OU1EESB18 5/23/2017 OU1EESB18-SD-1.00- 1-2 FD	OU1EESB19 5/23/2017 OU1EESB19-S-0.17- 0.17-0.5 REG	OU1EESB19 5/23/2017 OU1EESB19-S-0.50- 0.5-1 REG	OU1EESB19 5/23/2017 OU1EESB19-S-1.00- 1-2 REG	OU1EESB20 5/24/2017 OU1EESB20-S-0.17- 0.17-0.5 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	19,800	16,700	17,500	23,900	18,100	18,100	21,000	14,900	16,200	15,800
Antimony	7440-36-0	--	12	--	--	--	0.366 J	0.125 J	0.164 J	0.182 J	0.105 J	< 0.112	0.177 J	0.104 J	< 0.128	0.308 J
Arsenic	7440-38-2	16	13	13	16	16	8.76	5.28	5.46	7.67	6.32	6.53	9.57	6.45	7.2	8
Barium	7440-39-3	820	433	350	350	400	77.5	53.4	62.6	105	60.3	58.5	55.8	41.3	47.3	81.7
Beryllium	7440-41-7	47	10	7.2	14	72	0.838	0.643	0.621	0.908	0.526	0.546	0.852	0.572	0.655	0.759
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.252	0.0941 J	0.124 J	0.119 J	0.0545 J	0.0535 J	0.203 J	0.0812 J	0.0936 J	0.195 J
Calcium	7440-70-2	--	10000	--	--	--	10,100	368	782	898	402	408	1,040	833	879	4,430
Chromium	7440-47-3	--	--	30	36	180	22.6	18.8	21.6	23.8	18.7	19.1	21.7	15.6	16.5	17.6
Cobalt	7440-48-4	--	20	--	30	--	6.41	9.93	11.8	13.9	10.2	11.3	13.5	10.1	10.5	11.1
Copper	7440-50-8	1720	50	50	270	270	16.9	17.4	15	21.2	21.4	21.7	29.4	22.4	22.6	24.3
Iron	7439-89-6	--	--	--	2000	--	19,900	24,100	27,400	29,700	27,300	27,400	35,900	26,700	27,600	25,500
Lead	7439-92-1	450	63	63	400	400	36.1	12	21.4	23.2	12.6	12.1	23.6	11.7	10.6	27.9
Magnesium	7439-95-4	--	--	--	--	--	6,790	5,020	5,530	5,580	5,000	5,000	6,740	4,850	4,750	7,350
Manganese	7439-96-5	2000	1600	1600	2000	2000	323	299	879	1,410	598	555	862	615	634	743
Nickel	7440-02-0	130	30	30	140	310	18.2	22.5	23.6	24.5	19.8	20.3	25.4	18.2	18.9	24
Potassium	7440-09-7	--	--	--	--	--	2,250	1,400	990	1,750	1,340	1,570	1,820	1,230	1,640	2,490
Selenium	7782-49-2	4	3.9	3.9	36	180	0.535 J	0.276 J	0.317 J	0.424 J	0.230 J	0.197 J	0.227 J	0.104 J	0.128 J	0.241 J
Silver	7440-22-4	8.3	2	2	36	180	0.139 J	0.0343 J	0.0577 J	0.0761 J	0.0241 J	< 0.0270	0.0598 J	0.0268 J	< 0.0307	0.111 J
Sodium	7440-23-5	--	--	--	--	--	71.6 J	41.4 J	36.5 J	60.2 J	43.4 J	47.0 J	66.9 J	40.9 J	53.9 J	62.3 J
Thallium	7440-28-0	--	5	--	--	--	0.170 J	0.104 J	0.128 J	0.177 J	0.129 J	0.128 J	0.151 J	0.0727 J	0.0933 J	0.138 J
Vanadium	7440-62-2	--	39	--	100	--	42.8	22.6	27.4	31.2	23.2	23.6	33.5	19.4	21.5	34.2
Zinc	7440-66-6	2480	109	109	2200	10000	82.8	73.6	65.9	85.5	60.2	62.9	118	69.9	67.8	79.9
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0716 J	0.0339 J	0.0785 J	0.0852 J	0.0321 J	0.0291 J	0.0488 J	0.0296 J	0.0241 J	0.122 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB20 5/24/2017 OU1EESB20-S-0.50- 0.5-1 REG	OU1EESB20 5/24/2017 OU1EESB20-S-1.00- 1-2 REG	OU1EESB21 5/25/2017 OU1EESB21-S-0.17- 0.17-0.5 REG	OU1EESB21 5/25/2017 OU1EESB21-S-0.50- 0.5-1 REG	OU1EESB21 5/25/2017 OU1EESB21-S-1.00- 1-2 REG	OU1EESB22 5/30/2017 OU1EESB22-S-0.17- 0.17-0.5 REG	OU1EESB22 5/30/2017 OU1EESB22-S-0.50- 0.5-1 REG	OU1EESB22 5/30/2017 OU1EESB22-S-1.00- 1-2 REG	OU1EESB23 5/30/2017 OU1EESB23-S-0.17- 0.17-0.5 REG	OU1EESB23 5/30/2017 OU1EESB23-S-0.50- 0.5-1 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB20 5/24/2017 OU1EESB20-S-0.50- 0.5-1 REG	OU1EESB20 5/24/2017 OU1EESB20-S-1.00- 1-2 REG	OU1EESB21 5/25/2017 OU1EESB21-S-0.17- 0.17-0.5 REG	OU1EESB21 5/25/2017 OU1EESB21-S-0.50- 0.5-1 REG	OU1EESB21 5/25/2017 OU1EESB21-S-1.00- 1-2 REG	OU1EESB22 5/30/2017 OU1EESB22-S-0.17- 0.17-0.5 REG	OU1EESB22 5/30/2017 OU1EESB22-S-0.50- 0.5-1 REG	OU1EESB22 5/30/2017 OU1EESB22-S-1.00- 1-2 REG	OU1EESB23 5/30/2017 OU1EESB23-S-0.17- 0.17-0.5 REG	OU1EESB23 5/30/2017 OU1EESB23-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.70	< 0.13	< 0.12	< 0.12	< 0.11	< 0.14	< 0.14	< 0.13	< 0.14	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 2.1	< 0.39	< 0.37	< 0.35	< 0.34	< 0.42	< 0.43	< 0.38	< 0.43	< 0.38
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.047	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009	< 0.008	< 0.01	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.023	0.005 J	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.7	< 0.13	< 0.12	< 0.12	< 0.11	< 0.14	< 0.14	< 0.13	< 0.14	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 1.2	< 0.22	< 0.21	< 0.19	< 0.19	< 0.23	< 0.24	< 0.21	< 0.24	< 0.21
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.23	< 0.043	< 0.042	< 0.039	< 0.038	< 0.047	< 0.047	< 0.042	< 0.048	< 0.043
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 1.2	< 0.22	< 0.21	< 0.19	< 0.19	< 0.23	< 0.24	< 0.21	< 0.24	< 0.21
Acenaphthene	83-32-9	98	20	20	100	100	0.19	0.026	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	0.04 J	0.007 J	< 0.004	< 0.004	< 0.004	0.005 J	< 0.005	< 0.004	< 0.005	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
Anthracene	120-12-7	1000	--	100	100	100	0.38	0.051	< 0.004	< 0.004	< 0.004	0.008 J	< 0.005	< 0.004	< 0.005	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.23	< 0.043	< 0.042	< 0.039	< 0.038	< 0.047	< 0.047	< 0.042	< 0.048	< 0.043
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
Benzo(a)anthracene	56-55-3	1	--	1	1	1	1.8	0.26	0.006 J	< 0.004	< 0.004	0.034	< 0.005	< 0.004	< 0.005	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	2	0.31	< 0.004	< 0.004	< 0.004	0.043	< 0.005	0.005 J	0.006 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	2.7	0.43	0.015 J	< 0.004	< 0.004	0.055	< 0.005	< 0.004	0.008 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	1.4	0.23	0.007 J	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	0.011 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	1.2	0.19	< 0.004	< 0.004	< 0.004	0.03	< 0.005	< 0.004	< 0.005	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
bis(2																

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB20 5/24/2017 OU1EESB20-S-0.50- 0.5-1 REG	OU1EESB20 5/24/2017 OU1EESB20-S-1.00- 1-2 REG	OU1EESB21 5/25/2017 OU1EESB21-S-0.17- 0.17-0.5 REG	OU1EESB21 5/25/2017 OU1EESB21-S-0.50- 0.5-1 REG	OU1EESB21 5/25/2017 OU1EESB21-S-1.00- 1-2 REG	OU1EESB22 5/30/2017 OU1EESB22-S-0.17- 0.17-0.5 REG	OU1EESB22 5/30/2017 OU1EESB22-S-0.50- 0.5-1 REG	OU1EESB22 5/30/2017 OU1EESB22-S-1.00- 1-2 REG	OU1EESB23 5/30/2017 OU1EESB23-S-0.17- 0.17-0.5 REG	OU1EESB23 5/30/2017 OU1EESB23-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	16,100	16,900	20,000	19,400	18,500	19,500	21,800	21,700	18,400	19,100
Antimony	7440-36-0	--	12	--	--	--	0.189 J	0.158 J	0.185 J	0.119 J	< 0.110	0.251 J	0.138 J	0.140 J	0.182 J	< 0.103
Arsenic	7440-38-2	16	13	13	16	16	6.97	5.88	7.05	6.39	7.68	6.73	6	6.47	6.54	6.3
Barium	7440-39-3	820	433	350	350	400	65.8	54	99.3	89.2	75.9	93.7	96.5	86.7	72	71.6
Beryllium	7440-41-7	47	10	7.2	14	72	0.778	0.667	0.908	0.853	0.819	0.967	0.854	0.692	0.763	0.777
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.139 J	0.0851 J	0.103 J	0.0980 J	0.0750 J	0.156 J	0.0533 J	0.0585 J	0.117 J	0.0701 J
Calcium	7440-70-2	--	10000	--	--	--	2,250	1,020	936	784	988	990	449	456	313	216
Chromium	7440-47-3	--	--	30	36	180	16.6	17	22.3	22.6	22.2	17.7	20.7	21.6	17.8	19.2
Cobalt	7440-48-4	--	20	--	30	--	9.76	9.72	13.7	12.9	12	9.51	11.2	12.4	9.46	14
Copper	7440-50-8	1720	50	50	270	270	22.2	17.2	19.6	22.3	21.2	16	13.4	16.8	16.5	18.3
Iron	7439-89-6	--	--	--	2000	--	28,300	25,700	27,600	30,800	33,000	22,900	24,900	27,600	22,600	29,200
Lead	7439-92-1	450	63	63	400	400	19.1	11.7	22.7	14.7	12.3	23.3	13.2	12.6	14.2	14.6
Magnesium	7439-95-4	--	--	--	--	--	5,910	5,360	5,280	6,180	5,950	3,920	4,200	4,310	3,930	5,050
Manganese	7439-96-5	2000	1600	1600	2000	2000	656	502	1,050	819	400	911	823	694	678	678
Nickel	7440-02-0	130	30	30	140	310	19.7	19.9	26.8	27.6	26	20.3	20.7	21.6	20.7	26.2
Potassium	7440-09-7	--	--	--	--	--	2,050	1,720	1,940	2,210	1,900	1,580	1,480	1,840	1,200	1,330
Selenium	7782-49-2	4	3.9	3.9	36	180	0.181 J	0.202 J	0.516 J	0.240 J	0.160 J	0.479 J	0.383 J	0.276 J	0.452 J	0.281 J
Silver	7440-22-4	8.3	2	2	36	180	0.0780 J	0.0367 J	0.0668 J	0.0447 J	< 0.0265	0.0924 J	0.0758 J	< 0.0272	0.0793 J	0.0347 J
Sodium	7440-23-5	--	--	--	--	--	64.2 J	52.3 J	83.4 J	78.5 J	73.0 J	76.2 J	59.6 J	91.2 J	43.9 J	42.6 J
Thallium	7440-28-0	--	5	--	--	--	0.120 J	0.106 J	0.196 J	0.131 J	0.118 J	0.188 J	0.190 J	0.161 J	0.151 J	0.122 J
Vanadium	7440-62-2	--	39	--	100	--	29.8	24.7	30	26.4	27.3	31.1	29.1	31.3	24.1	25.3
Zinc	7440-66-6	2480	109	109	2200	10000	70.2	60.8	86.2	69.7	66.8	78.7	76.6	76.5	81.8	81.3
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.104 J	0.0409 J	0.0611 J	0.0346 J	0.0313 J	0.0691 J	0.0297 J	0.0339 J	0.0506 J	0.0264 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB23 5/30/2017 OU1EESB23-S-1.00- 1-2 REG	OU1EESB24 6/1/2017 OU1EESB24-S-0.17- 0.17-0.5 REG	OU1EESB24 6/1/2017 OU1EESB24-S-0.50- 0.5-1 REG	OU1EESB24 6/1/2017 OU1EESB24-S-1.00- 1-2 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.00- 0-0.17 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.17- 0.17-0.5 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.50- 0.5-1 REG	OU1EESB25 6/1/2017 OU1EESB25-S-1.00- 1-2 REG	OU1EESB26 6/1/2017 OU1EESB26-S-0.00- 0-0.17 REG	OU1EESB26 6/1/2017 OU1EESB26-S-0.17- 0.17-0.5 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB23 5/30/2017 OU1EESB23-S-1.00- 1-2 REG	OU1EESB24 6/1/2017 OU1EESB24-S-0.17- 0.17-0.5 REG	OU1EESB24 6/1/2017 OU1EESB24-S-0.50- 0.5-1 REG	OU1EESB24 6/1/2017 OU1EESB24-S-1.00- 1-2 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.00- 0-0.17 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.17- 0.17-0.5 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.50- 0.5-1 REG	OU1EESB25 6/1/2017 OU1EESB25-S-1.00- 1-2 REG	OU1EESB26 6/1/2017 OU1EESB26-S-0.00- 0-0.17 REG	OU1EESB26 6/1/2017 OU1EESB26-S-0.17- 0.17-0.5 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.68	< 0.13	< 0.12	< 0.87	< 0.15	< 0.16	< 0.13	< 0.14	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.38	< 2	< 0.38	< 0.36	< 2.6	< 0.44	< 0.49	< 0.39	< 0.41	< 0.39
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.045	< 0.008	< 0.008	< 0.058	< 0.01	< 0.011	< 0.009	< 0.009	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	0.025 J	0.006 J	< 0.004	< 0.029	0.006 J	< 0.005	< 0.004	< 0.005	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.68	< 0.13	< 0.12	< 0.87	< 0.15	< 0.16	< 0.13	< 0.14	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.21	< 1.1	< 0.21	< 0.2	< 1.4	< 0.25	< 0.27	< 0.22	< 0.23	< 0.22
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.042	< 0.23	< 0.042	< 0.04	< 0.29	< 0.049	< 0.055	< 0.043	< 0.045	< 0.043
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.21	< 1.1	< 0.21	< 0.2	< 1.4	< 0.25	< 0.27	< 0.22	< 0.23	< 0.22
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.023	0.009 J	< 0.004	< 0.029	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.023	0.012 J	< 0.004	0.039 J	0.013 J	< 0.005	< 0.004	< 0.005	0.007 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.020	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	0.043 J	0.032	< 0.004	< 0.029	0.01 J	< 0.005	< 0.004	< 0.005	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.042	< 0.23	< 0.042	< 0.040	< 0.29	< 0.049	< 0.055	< 0.043	< 0.045	< 0.043
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.13 J	< 0.11	< 0.086	< 0.091	< 0.086
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.16	0.15	0.014 J	0.058 J	0.023 J	0.007 J	< 0.004	0.008 J	0.01 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.18	0.19	0.016 J	0.071 J	0.03	0.01 J	< 0.004	0.009 J	0.013 J
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	0.23	0.27	0.021	0.13 J	0.053	0.014 J	< 0.004	0.014 J	0.021 J
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.12	0.15	0.011 J	0.057 J	0.025	0.006 J	< 0.004	0.007 J	0.011 J
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.095 J	0.11	0.009 J	0.034 J	0.018 J	< 0.005	< 0.004	< 0.005	0.009 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.084	< 0.45	<							

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB23 5/30/2017 OU1EESB23-S-1.00- 1-2 REG	OU1EESB24 6/1/2017 OU1EESB24-S-0.17- 0.17-0.5 REG	OU1EESB24 6/1/2017 OU1EESB24-S-0.50- 0.5-1 REG	OU1EESB24 6/1/2017 OU1EESB24-S-1.00- 1-2 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.00- 0-0.17 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.17- 0.17-0.5 REG	OU1EESB25 6/1/2017 OU1EESB25-S-0.50- 0.5-1 REG	OU1EESB25 6/1/2017 OU1EESB25-S-1.00- 1-2 REG	OU1EESB26 6/1/2017 OU1EESB26-S-0.00- 0-0.17 REG	OU1EESB26 6/1/2017 OU1EESB26-S-0.17- 0.17-0.5 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	17,800	8,620	18,400	15,200	15,400	17,100	26,000	18,300	14,100	19,100
Antimony	7440-36-0	--	12	--	--	--	0.142 J	< 0.133	0.204 J	0.131 J	0.499 J	0.276 J	0.134 J	< 0.112	0.276 J	0.188 J
Arsenic	7440-38-2	16	13	13	16	16	6.81	5.07	8.46	6.12	6.44	6.93	7.69	5.5	6.39	6.1
Barium	7440-39-3	820	433	350	350	400	68.3	41.7	72.3	48.5	80.5	54.6	71.4	45.1	52.5	58.2
Beryllium	7440-41-7	47	10	7.2	14	72	0.632	0.488	0.935	0.623	0.776	0.892	1.28	0.729	0.595	0.913
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0848 J	0.242 J	0.337	0.0829 J	0.489	0.182 J	0.127 J	0.0448 J	0.225	0.136 J
Calcium	7440-70-2	--	10000	--	--	--	216	33,900	3,230	1,340	4,080	729	590	392	1,760	743
Chromium	7440-47-3	--	--	30	36	180	19.8	12	22.7	19.4	13.8	14.1	21	16.5	12	16.3
Cobalt	7440-48-4	--	20	--	30	--	12.2	6.44	15.1	9.24	5.11	8.3	9.98	7.68	5.73	8.57
Copper	7440-50-8	1720	50	50	270	270	22.3	18.9	34.4	27.6	14.1	11.5	13.7	12.6	11.3	14.6
Iron	7439-89-6	--	--	--	2000	--	28,200	17,000	34,900	30,500	15,800	18,900	27,200	22,800	16,300	22,500
Lead	7439-92-1	450	63	63	400	400	13.8	16.4	29.9	11.8	59.6	35.9	18.9	10.9	39.1	19.4
Magnesium	7439-95-4	--	--	--	--	--	5,260	23,400	7,680	5,870	2,850	3,040	4,860	4,170	2,930	4,090
Manganese	7439-96-5	2000	1600	1600	2000	2000	624	677	1,080	414	934	674	701	313	468	515
Nickel	7440-02-0	130	30	30	140	310	24.5	19.2	34	24.1	16.2	14.5	25.7	17.2	15.5	19.8
Potassium	7440-09-7	--	--	--	--	--	1,720	1,530	2,060	1,660	1,060	913	1,160	891	730	941
Selenium	7782-49-2	4	3.9	3.9	36	180	0.208 J	0.179 J	0.205 J	0.0987 J	0.759 J	0.609 J	0.529 J	0.321 J	0.462 J	0.450 J
Silver	7440-22-4	8.3	2	2	36	180	< 0.0271	0.0707 J	0.103 J	0.0387 J	0.326 J	0.188 J	0.139 J	0.0453 J	0.114 J	0.131 J
Sodium	7440-23-5	--	--	--	--	--	42.5 J	68.3 J	60.2 J	49.9 J	49.6 J	44.3 J	46.1 J	35.9 J	32.1 J	46.0 J
Thallium	7440-28-0	--	5	--	--	--	0.102 J	0.0783 J	0.134 J	0.0962 J	0.165 J	0.164 J	0.200 J	0.128 J	0.154 J	0.138 J
Vanadium	7440-62-2	--	39	--	100	--	23.8	30.3	29.7	20.2	39.5	33.4	33.7	25.2	26.5	24.8
Zinc	7440-66-6	2480	109	109	2200	10000	73.2	51.5	106	75.7	82.8	65.1	90.9	61.7	66.6	67.7
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0324 J	0.0913 J	0.109 J	0.0330 J	0.171	0.111 J	0.0788 J	0.0394 J	0.0869 J	0.0388 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB26 6/1/2017 OU1EESB26-S-0.50- 0.5-1 REG	OU1EESB26 6/1/2017 OU1EESB26-S-1.00- 1-2 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.00- 0-0.17 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.17- 0.17-0.5 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.50- 0.5-1 REG	OU1EESB27 5/31/2017 OU1EESB27-S-1.00- 1-2 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.00- 0-0.17 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.17- 0.17-0.5 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.50- 0.5-1 REG	OU1EESB28 5/31/2017 OU1EESB28-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1-Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	< 0.001	< 0.001	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	< 0.001	< 0.001	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	< 0.001	< 0.001	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	0.005 J	0.005 J	0.009 J	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	< 0.004	< 0.003	< 0.003	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	< 0.004	< 0.003	< 0.003	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	0.1	0.1	0.28	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	< 0.0006	< 0.0006	< 0.0006	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	< 0.0006	< 0.0006	< 0.0006	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	< 0.025	< 0.022	0.052 J	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	< 0.003	< 0.002	< 0.002	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB26 6/1/2017 OU1EESB26-S-0.50- 0.5-1 REG	OU1EESB26 6/1/2017 OU1EESB26-S-1.00- 1-2 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.00- 0-0.17 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.17- 0.17-0.5 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.50- 0.5-1 REG	OU1EESB27 5/31/2017 OU1EESB27-S-1.00- 1-2 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.00- 0-0.17 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.17- 0.17-0.5 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.50- 0.5-1 REG	OU1EESB28 5/31/2017 OU1EESB28-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.14	< 0.13	< 0.14	< 0.13	< 0.12	< 0.13	< 0.15	< 0.12	< 0.12	< 0.11
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.43	< 0.39	< 0.41	< 0.38	< 0.35	< 0.39	< 0.45	< 0.36	< 0.35	< 0.34
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.01	< 0.009	< 0.009	< 0.009	< 0.008	< 0.009	< 0.01	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.006 J	< 0.004	0.008 J	< 0.004	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.14	< 0.13	< 0.14	< 0.13	< 0.12	< 0.13	< 0.15	< 0.12	< 0.12	< 0.11
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.24	< 0.22	< 0.23	< 0.21	< 0.2	< 0.22	< 0.25	< 0.2	< 0.2	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.048	< 0.043	< 0.045	< 0.043	< 0.039	< 0.044	< 0.05	< 0.04	< 0.039	< 0.038
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.24	< 0.22	< 0.23	< 0.21	< 0.22	< 0.22	< 0.25	< 0.2	< 0.2	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	0.016 J	< 0.004	0.008 J	< 0.004	< 0.004	< 0.004	0.01 J	0.008 J	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
Anthracene	120-12-7	1000	--	100	100	100	0.011 J	< 0.004	0.008 J	< 0.004	< 0.004	< 0.004	0.013 J	0.007 J	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.048	< 0.043	< 0.045	< 0.043	< 0.039	< 0.044	< 0.05	< 0.04	< 0.039	< 0.038
Benzaldehyde	100-52-7	--	--	--	--	--	0.11 J	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	0.19 J	< 0.08	< 0.079	< 0.076
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.029	0.004 J	0.024	0.005 J	0.004 J	0.005 J	0.04	0.016 J	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.035	< 0.004	0.036	0.009 J	0.007 J	0.007 J	0.058	0.027	< 0.004	0.004 J
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.058	0.006 J	0.053	0.013 J	0.008 J	0.012 J	0.081	0.041	< 0.004	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.027	0.005 J	0.025	0.006 J	0.005 J	0.006 J	0.04	0.022	< 0.004	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.02 J	< 0.004	0.018 J	0.005 J	< 0.004	< 0.004	0.035	0.014 J	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.096									

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB26 6/1/2017 OU1EESB26-S-0.50- 0.5-1 REG	OU1EESB26 6/1/2017 OU1EESB26-S-1.00- 1-2 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.00- 0-0.17 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.17- 0.17-0.5 REG	OU1EESB27 5/31/2017 OU1EESB27-S-0.50- 0.5-1 REG	OU1EESB27 5/31/2017 OU1EESB27-S-1.00- 1-2 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.00- 0-0.17 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.17- 0.17-0.5 REG	OU1EESB28 5/31/2017 OU1EESB28-S-0.50- 0.5-1 REG	OU1EESB28 5/31/2017 OU1EESB28-S-1.00- 1-2 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	21,100	19,300	20,400	19,300	15,900	16,500	20,000	18,400	18,500	17,700
Antimony	7440-36-0	--	12	--	--	--	0.156 J	< 0.107	0.34 J	0.146 J	< 0.104	0.113 J	0.28 J	0.17 J	< 0.0944	0.103 J
Arsenic	7440-38-2	16	13	13	16	16	6.02	5.15	8.41	5.68	4.93	5.5	7.59	6.63	5.39	6.63
Barium	7440-39-3	820	433	350	350	400	67.2	56.7	61.6	55.5	62.8	45	80.7	59.4	50.7	49.2
Beryllium	7440-41-7	47	10	7.2	14	72	0.946	0.786	1.02	0.99	0.721	0.733	1.12	0.923	0.815	0.697
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.112 J	< 0.0422	0.18 J	0.0767 J	0.0788 J	0.0635 J	0.23	0.136 J	0.0619 J	0.0773 J
Calcium	7440-70-2	--	10000	--	--	--	763	469	531	316	613	414	1,070	533	292	195
Chromium	7440-47-3	--	--	30	36	180	17.6	17.1	17.9	16.1	14.1	15.5	21.6	15.7	17.4	18.3
Cobalt	7440-48-4	--	20	--	30	--	9	8.78	8.81	7.81	6.82	8.83	14.7	8.27	10.9	12.5
Copper	7440-50-8	1720	50	50	270	270	14.1	12.9	17.1	11.9	16.9	13.9	25.5	15.8	17.9	24.4
Iron	7439-89-6	--	--	--	2000	--	22,000	21,900	22,800	20,000	18,400	22,700	34,500	20,500	25,300	29,700
Lead	7439-92-1	450	63	63	400	400	15.5	12.3	38.2	15.3	13.1	16.7	59.7	24.8	12.7	13.7
Magnesium	7439-95-4	--	--	--	--	--	4,160	3,990	4,030	3,690	3,340	3,960	5,770	3,740	4,860	5,780
Manganese	7439-96-5	2000	1600	1600	2000	2000	544	305	667	561	398	568	1,310	585	582	562
Nickel	7440-02-0	130	30	30	140	310	20.2	18.6	21.1	18.5	15.4	18.5	30.3	19.9	22.3	26.4
Potassium	7440-09-7	--	--	--	--	--	1,260	1,120	1,100	946	809	890	972	1,040	1,080	1,180
Selenium	7782-49-2	4	3.9	3.9	36	180	0.356 J	0.282 J	0.77 J	0.444 J	0.282 J	0.286 J	0.456 J	0.522 J	0.26 J	0.177 J
Silver	7440-22-4	8.3	2	2	36	180	0.140 J	0.0673 J	0.202 J	0.166 J	0.109 J	0.07 J	0.111 J	0.144 J	0.0602 J	0.0333 J
Sodium	7440-23-5	--	--	--	--	--	55.6 J	45.3 J	45.3 J	31.4 J	35.2 J	34.5 J	35.8 J	38.5 J	31.4 J	33.2 J
Thallium	7440-28-0	--	5	--	--	--	0.190 J	0.152 J	0.182 J	0.151 J	0.123 J	0.122 J	0.145 J	0.136 J	0.138 J	0.0849 J
Vanadium	7440-62-2	--	39	--	100	--	25.9	24.9	32.8	22.2	19.7	22.4	35.4	24.7	21.9	21.1
Zinc	7440-66-6	2480	109	109	2200	10000	72	64.5	79.9	68.9	58.3	60.5	131	82.1	76	71
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0450 J	0.0333 J	0.141	0.0646 J	0.0395 J	0.0497 J	0.174	0.0884 J	0.0342 J	0.0395 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB29 5/23/2017 OU1EESB29-S-0.50- 0.5-1 REG	OU1EESB29 5/23/2017 OU1EESB29-S-1.00- 1-2 REG	OU1EESB30 5/23/2017 OU1EESB30-S-0.17- 0.17-0.5 REG	OU1EESB30 5/23/2017 OU1EESB30-S-1.00- 1-2 REG	OU1EESB31 5/23/2017 OU1EESB31-S-0.17- 0.17-0.5 REG	OU1EESB31 5/23/2017 OU1EESB31-S-0.50- 0.5-1 REG	OU1EESB32 5/23/2017 OU1EESB32-S-0.17- 0.17-0.5 REG	OU1EESB32 5/23/2017 OU1EESB32-S-0.50- 0.5-1 REG	OU1EESB32 5/23/2017 OU1EESB32-S-1.00- 1-2 REG	OU1EESB33 5/24/2017 OU1EESB33-S-0.50- 0.5-1 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB29 5/23/2017 OU1EESB29-S-0.50- 0.5-1 REG	OU1EESB29 5/23/2017 OU1EESB29-S-1.00- 1-2 REG	OU1EESB30 5/23/2017 OU1EESB30-S-0.17- 0.17-0.5 REG	OU1EESB30 5/23/2017 OU1EESB30-S-1.00- 1-2 REG	OU1EESB31 5/23/2017 OU1EESB31-S-0.17- 0.17-0.5 REG	OU1EESB31 5/23/2017 OU1EESB31-S-0.50- 0.5-1 REG	OU1EESB32 5/23/2017 OU1EESB32-S-0.17- 0.17-0.5 REG	OU1EESB32 5/23/2017 OU1EESB32-S-0.50- 0.5-1 REG	OU1EESB32 5/23/2017 OU1EESB32-S-1.00- 1-2 REG	OU1EESB33 5/24/2017 OU1EESB33-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.13	< 0.15	< 0.12	< 0.14	< 0.12	< 0.13	< 0.12	< 0.12	< 0.14
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.080	< 0.085	< 0.10	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.36	< 0.38	< 0.45	< 0.35	< 0.41	< 0.35	< 0.39	< 0.35	< 0.35	< 0.43
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.08	< 0.085	< 0.1	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.009	< 0.01	< 0.008	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008	< 0.01
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.005	< 0.004	0.005 J	< 0.004	0.007 J	< 0.004	< 0.004	0.006 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.13	< 0.15	< 0.12	< 0.14	< 0.12	< 0.13	< 0.12	< 0.12	< 0.14
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.08	< 0.085	< 0.1	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.21	< 0.25	< 0.19	< 0.23	< 0.2	< 0.22	< 0.2	< 0.19	< 0.24
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.04	< 0.043	< 0.05	< 0.038	< 0.045	< 0.039	< 0.043	< 0.039	< 0.039	< 0.048
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.02	< 0.021	0.046 J	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.08	< 0.085	< 0.1	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.21	< 0.25	< 0.19	< 0.23	< 0.2	< 0.22	< 0.2	< 0.19	< 0.24
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.005	< 0.004	0.005 J	< 0.004	0.011 J	< 0.004	< 0.004	0.01 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.020	< 0.021	< 0.025	< 0.019	< 0.023	< 0.020	< 0.022	< 0.020	< 0.019	< 0.024
Anthracene	120-12-7	1000	--	100	100	100	0.004 J	< 0.004	0.006 J	< 0.004	0.007 J	< 0.004	0.009 J	< 0.004	< 0.004	0.007 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.040	< 0.043	< 0.050	< 0.038	< 0.045	< 0.039	< 0.043	< 0.039	< 0.039	< 0.048
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.080	< 0.085	< 0.10	< 0.077	0.11 J	< 0.079	0.097 J	< 0.078	< 0.077	0.15 J
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.008 J	< 0.004	0.012 J	< 0.004	0.015 J	0.004 J	0.025	< 0.004	< 0.004	0.021 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.008 J	< 0.004	0.015 J	< 0.004	0.021 J	0.006 J	0.032	0.005 J	< 0.004	0.039
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.011 J	< 0.004	0.024 J	< 0.004	0.032	0.01 J	0.047	< 0.004	< 0.004	0.05
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.007 J	< 0.004	< 0.005	< 0.004	0.014 J	< 0.004	0.024	< 0.004	< 0.004	0.022 J
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.006 J	< 0.004	0.012 J	< 0.004	0.013 J	< 0.004	0.019 J	< 0.004	< 0.004	0.016 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
bis(2-Ethylhexyl)phthalate	117-81-7	435														

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB29 5/23/2017 OU1EESB29-S-0.50- 0.5-1 REG	OU1EESB29 5/23/2017 OU1EESB29-S-1.00- 1-2 REG	OU1EESB30 5/23/2017 OU1EESB30-S-0.17- 0.17-0.5 REG	OU1EESB30 5/23/2017 OU1EESB30-S-1.00- 1-2 REG	OU1EESB31 5/23/2017 OU1EESB31-S-0.17- 0.17-0.5 REG	OU1EESB31 5/23/2017 OU1EESB31-S-0.50- 0.5-1 REG	OU1EESB32 5/23/2017 OU1EESB32-S-0.17- 0.17-0.5 REG	OU1EESB32 5/23/2017 OU1EESB32-S-0.50- 0.5-1 REG	OU1EESB32 5/23/2017 OU1EESB32-S-1.00- 1-2 REG	OU1EESB33 5/24/2017 OU1EESB33-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	< 0.0046	< 0.0042	< 0.0042	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	< 0.0059	< 0.0054	< 0.0053	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	< 0.01	< 0.0094	< 0.0093	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0038	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0038	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0038	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	< 0.0063	< 0.0057	< 0.0057	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0038	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0038	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	< 0.00043	< 0.00039	< 0.00038	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	0.0018 J	< 0.00039	0.00044 J	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	< 0.00045	< 0.00041	< 0.00041	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	< 0.00039	< 0.00035	< 0.00035	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	< 0.00058	< 0.00053	< 0.00052	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	< 0.00043	< 0.00039	< 0.00038	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	< 0.00029	< 0.00026	< 0.00026	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	< 0.00043	< 0.00039	< 0.00038	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	< 0.00043	< 0.00039	< 0.00038	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	< 0.00043	< 0.00039	< 0.00038	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	< 0.00043	< 0.00039	< 0.00038	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	< 0.00078	< 0.0007	< 0.0007	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	< 0.00022	< 0.0002	< 0.0002	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	< 0.0022	< 0.002	< 0.002	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	< 0.018	< 0.016	< 0.016	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	16,500	18,500	12,300	17,700	20,700	19,700	19,500	19,200	20,800	15,600
Antimony	7440-36-0	--	12	--	--	--	0.110 J	< 0.0889	0.155 J	0.134 J	0.137 J	0.171 J	0.282 J	0.114 J	0.259 J	0.335 J
Arsenic	7440-38-2	16	13	13	16	16	5.62	4.75	4.7	6.37	6.18	6.77	6.41	6.27	7.16	5.26
Barium	7440-39-3	820	433	350	350	400	44.1	86	54.5	47.1	85.2	74.6	70.3	63.8	78.6	64.8
Beryllium	7440-41-7	47	10	7.2	14	72	0.623	0.951	0.502	0.626	0.768	0.818	0.766	0.71	0.774	0.634
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0890 J	0.0862 J	0.0664 J	0.0848 J	0.0764 J	0.0723 J	0.0726 J	0.0416 J	0.0406 J	0.100 J
Calcium	7440-70-2	--	10000	--	--	--	199	220	510	396	633	387	401	263	314	654
Chromium	7440-47-3	--	--	30	36	180	17.5	16	12.7	20.6	20.5	21.7	20.9	22.1	24.1	16.2
Cobalt	7440-48-4	--	20	--	30	--	12	9.61	7.77	12.9	11.6	13.3	11.9	11.8	14	6.95
Copper	7440-50-8	1720	50	50	270	270	19.5	14.4	14	25.3	18	19.3	18.3	28.7	30.5	13.6
Iron	7439-89-6	--	--	--	2000	--	27,000	21,800	17,500	31,000	25,800	30,200	25,900	33,300	32,700	17,800
Lead	7439-92-1	450	63	63	400	400	16.1	17.2	15	13.9	22.3	16.2	49.9	16.3	22.2	28.9
Magnesium	7439-95-4	--	--	--	--	--	4,910	4,050	3,170	5,960	4,860	6,060	5,300	6,060	6,050	3,320
Manganese	7439-96-5	2000	1600	1600	2000	2000	756	1,110	567	620	880	707	752	467	654	406
Nickel	7440-02-0	130	30	30	140	310	21.2	18.8	15.3	24.2	21.7	24.7	22.2	27.1	27.5	16
Potassium	7440-09-7	--	--	--	--	--	1,120	1,010	1,090	1,550	1,270	1,890	1,630	1,740	2,490	1,170
Selenium	7782-49-2	4	3.9	3.9	36	180	0.248 J	0.247 J	0.294 J	0.189 J	0.453 J	0.356 J	0.474 J	0.308 J	0.297 J	0.411 J
Silver	7440-22-4	8.3	2	2	36	180	0.0403 J	0.111 J	0.0381 J	< 0.0224	0.0793 J	0.0329 J	0.0577 J	< 0.0220	0.0241 J	0.0874 J
Sodium	7440-23-5	--	--	--	--	--	33.5 J	28.5 J	39.7 J	40.3 J	46.4 J	55.1 J	55.4 J	49.1 J	61.6 J	42.5 J
Thallium	7440-28-0	--	5	--	--	--	0.0912 J	0.140 J	0.109 J	0.104 J	0.159 J	0.133 J	0.197 J	0.111 J	0.139 J	0.165 J
Vanadium	7440-62-2	--	39	--	100	--	20.5	19.4	22.1	29.7	28.7	33	25.7	29.9	29.9	33.5
Zinc	7440-66-6	2480	109	109	2200	10000	67.2	73.6	53.6	72.9	82.1	70.7	74.8	70.5	70	62.3
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0335 J	0.0209 J	0.0355 J	0.0270 J	0.0577 J	0.0427 J	0.0697 J	0.0433 J	0.0466 J	0.0733 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB33 5/24/2017 OU1EESB33-S-1.00- 1-2 REG	OU1EESB34 5/24/2017 OU1EESB34-S-0.17- 0.17-0.5 REG	OU1EESB34 5/24/2017 OU1EESB34-S-1.00- 1-2 REG	OU1EESB35 5/24/2017 OU1EESB35-S-0.17- 0.17-0.5 REG	OU1EESB35 5/24/2017 OU1EESB35-S-0.50- 0.5-1 REG	OU1EESB36 5/25/2017 OU1EESB36-S-0.17- 0.17-0.5 REG	OU1EESB36 5/25/2017 OU1EESB36-S-0.50- 0.5-1 REG	OU1EESB36 5/25/2017 OU1EESB36-S-1.00- 1-2 REG	OU1EESB37 5/24/2017 OU1EESB37-S-0.50- 0.5-1 REG	OU1EESB37 5/24/2017 OU1EESB37-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	< 0.001	< 0.001	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	< 0.001	< 0.001	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	0.006 J	< 0.004	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	< 0.003	< 0.003	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	< 0.003	< 0.003	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	0.085	0.059	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	< 0.0005	< 0.0005	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	< 0.002	< 0.002	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	< 0.021	< 0.02	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	< 0.001	< 0.001	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	< 0.001	< 0.001	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB33 5/24/2017 OU1EESB33-S-1.00- 1-2 REG	OU1EESB34 5/24/2017 OU1EESB34-S-0.17- 0.17-0.5 REG	OU1EESB34 5/24/2017 OU1EESB34-S-1.00- 1-2 REG	OU1EESB35 5/24/2017 OU1EESB35-S-0.17- 0.17-0.5 REG	OU1EESB35 5/24/2017 OU1EESB35-S-0.50- 0.5-1 REG	OU1EESB36 5/25/2017 OU1EESB36-S-0.17- 0.17-0.5 REG	OU1EESB36 5/25/2017 OU1EESB36-S-0.50- 0.5-1 REG	OU1EESB36 5/25/2017 OU1EESB36-S-1.00- 1-2 REG	OU1EESB37 5/24/2017 OU1EESB37-S-0.50- 0.5-1 REG	OU1EESB37 5/24/2017 OU1EESB37-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.37	< 0.37	< 0.35	< 0.39	< 0.36	< 0.37	< 0.35	< 0.35	< 0.34	< 0.34
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	0.005 J	< 0.004	0.01 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.21	< 0.21	< 0.19	< 0.22	< 0.21	< 0.21	< 0.19	< 0.2	< 0.19	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.041	< 0.041	< 0.039	< 0.043	< 0.04	< 0.041	< 0.039	< 0.039	< 0.038	< 0.038
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.21	< 0.21	< 0.19	< 0.22	< 0.2	< 0.21	< 0.19	< 0.2	< 0.19	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	0.007 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.020	< 0.021	< 0.019	< 0.020	< 0.019	< 0.019
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	0.005 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.041	< 0.041	< 0.039	< 0.043	< 0.040	< 0.041	< 0.039	< 0.039	< 0.038	< 0.038
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.083	< 0.12 J	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.01 J	0.005 J	0.006 J	< 0.004	0.01 J	< 0.004	0.006 J	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.018 J	< 0.004	0.011 J	< 0.004	0.011 J	< 0.004	0.007 J	0.004 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	0.023	0.01 J	0.014 J	< 0.004	0.021	0.006 J	0.009 J	0.004 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.011 J	0.004 J	0.006 J	< 0.004	0.009 J	< 0.004	0.007 J	< 0.004	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.01 J	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004	0.007 J	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	0.087 J	0.14 J	< 0.077	< 0.076
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
Caprolactam	105-60-2	--	--	--	--	--	< 0.041	< 0.041	< 0.039	< 0.043	< 0.040	< 0.041	< 0.039	< 0.039	< 0.038	< 0.038
Carbazole	86-74-8	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
Chrysene	218-01-9	1	--	1	1	3.9	< 0.004	0.018 J	< 0.004	0.008 J	< 0.004	0.014 J	0.008 J	0.008 J	0.004 J	< 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01	--	100	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
Di-n-octylphthalate	117-84-0	120	--	--	100	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004
Dibenzofuran	132-64-9	6.20	--	7	14	59	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
Diethylphthalate	84-66-2	7.1	100	--	100	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
Dimethyl phthalate	131-11-3	27	200	--	100	--	< 0.083	< 0.082	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	60	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.020	< 0.021	< 0.019	< 0.020	< 0.019	< 0.019
Fluoranthene	206-44-0	1000	--	100	100	100	< 0.004	0.026	0.008 J	0.011 J	< 0.004	0.023	0.007 J	0.007 J	0.005 J	< 0.004
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Hexachlorobenzene	118-74-1	1.4	--	0.33	0.33	1.2	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
Hexachlorocyclopentadiene	77-47-4	--	10	--	--	--	< 0.21	< 0.21	< 0.19	< 0.22	< 0.2	< 0.21	< 0.19	< 0.2	< 0.19	< 0.19
Hexachloroethane	67-72-1	--	--	--	--	--	< 0.041	< 0.041	< 0.039	< 0.043	< 0.04	< 0.041	< 0.039	< 0.039	< 0.038	< 0.038
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	< 0.004	0.012 J	< 0.004	0.005 J	< 0.004	0.006 J	< 0.004	0.006 J	< 0.004	< 0.004
Isophorone	78-59-1	4.4	--	--	100	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	20	--	--	--	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019</

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB33 5/24/2017 OU1EESB33-S-1.00- 1-2 REG	OU1EESB34 5/24/2017 OU1EESB34-S-0.17- 0.17-0.5 REG	OU1EESB34 5/24/2017 OU1EESB34-S-1.00- 1-2 REG	OU1EESB35 5/24/2017 OU1EESB35-S-0.17- 0.17-0.5 REG	OU1EESB35 5/24/2017 OU1EESB35-S-0.50- 0.5-1 REG	OU1EESB36 5/25/2017 OU1EESB36-S-0.17- 0.17-0.5 REG	OU1EESB36 5/25/2017 OU1EESB36-S-0.50- 0.5-1 REG	OU1EESB36 5/25/2017 OU1EESB36-S-1.00- 1-2 REG	OU1EESB37 5/25/2017 OU1EESB37-S-0.50- 0.5-1 REG	OU1EESB37 5/24/2017 OU1EESB37-S-1.00- 1-2 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	< 0.0047	< 0.0042	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	< 0.006	< 0.0054	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	< 0.01	< 0.0094	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	< 0.0063	< 0.0058	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	< 0.0043	< 0.0039	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	< 0.00043	< 0.00039	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	0.00061 JP	< 0.00039	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	< 0.00046	< 0.00042	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	< 0.00022	< 0.0002	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	< 0.00022	< 0.0002	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	< 0.00047	< 0.0002	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	0.00057 JP	< 0.00036	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	< 0.00058	< 0.00053	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	0.0006 J	< 0.00039	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	< 0.00029	< 0.00026	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	< 0.00043	< 0.00039	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	< 0.00043	< 0.00039	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	< 0.00043	< 0.00039	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	< 0.00043	< 0.00039	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	< 0.00079	< 0.00071	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	0.00038 J	< 0.0002	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	< 0.00022	< 0.0002	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	< 0.00022	< 0.0002	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	0.00025 JP	< 0.0002	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	< 0.0022	< 0.002	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	< 0.018	< 0.017	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	19,200	18,400	19,500	17,700	19,100	17,800	19,200	16,700	19,400	17,600
Antimony	7440-36-0	--	12	--	--	--	0.230 J	0.161 J	0.149 J	0.150 J	0.218 J	0.157 J	0.147 J	0.148 J	0.116 J	0.111 J
Arsenic	7440-38-2	16	13	13	16	16	8.76	4.11	6.73	6.31	8.07	5.15	6.15	6.36	6.8	6.38
Barium	7440-39-3	820	433	350	350	400	91.8	54.5	93.2	83.8	88.5	89.3	87.1	81.5	84.1	71.6
Beryllium	7440-41-7	47	10	7.2	14	72	0.956	0.696	0.776	0.796	0.961	0.882	0.843	0.742	0.849	0.762
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.109 J	0.0743 J	0.0612 J	0.117 J	0.112 J	0.131 J	0.101 J	0.110 J	0.0855 J	0.0614 J
Calcium	7440-70-2	--	10000	--	--	--	457	294	407	2,050	1,590	939	892	1,280	613	699
Chromium	7440-47-3	--	--	30	36	180	22.3	18.3	21.4	20	24.6	18	21.9	18.8	21.2	20.8
Cobalt	7440-48-4	--	20	--	30	--	18.2	11.9	12	13.3	16.5	11.4	14.4	12.6	14.2	15.3
Copper	7440-50-8	1720	50	50	270	270	30.7	17.3	27.6	25.1	31.8	14	19.6	19.4	25.4	28.6
Iron	7439-89-6	--	--	--	2000	--	33,700	29,000	28,500	28,600	33,400	26,500	28,100	25,100	29,100	31,900
Lead	7439-92-1	450	63	63	400	400	19.3	20.6	15.2	17.6	18.1	21	18	19.6	19.3	14.5
Magnesium	7439-95-4	--	--	--	--	--	5,950	5,470	5,380	7,120	5,850	4,970	5,850	4,960	5,870	5,780
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,020 E	721	581	645	891	1,080	842	728	704	814
Nickel	7440-02-0	130	30	30	140	310	29.9	24.9	24.8	26.9	28	23.9	26.2	25.5	27.8	28.4
Potassium	7440-09-7	--	--	--	--	--	2,340	1,060	2,480	2,340	2,580	1,340	1,760	1,740	1,570	1,770
Selenium	7782-49-2	4	3.9	3.9	36	180	0.312 J	0.317 J	0.275 J	0.203 J	0.117 J	0.350 J	0.348 J	0.300 J	0.370 J	0.202 J
Silver	7440-22-4	8.3	2	2	36	180	< 0.0257	0.0352 J	< 0.0259	< 0.0277	0.0378 J	0.0321 J	0.0443 J	0.0333 J	0.0306 J	< 0.0187
Sodium	7440-23-5	--	--	--	--	--	51.5 J	32.9 J	60.8 J	62.0 J	63.2 J	38.0 J	47.7 J	48.3 J	44.1 J	44.4 J
Thallium	7440-28-0	--	5	--	--	--	0.156 J	0.115 J	0.147 J	0.117 J	0.140 J	0.134 J	0.142 J	0.145 J	0.148 J	0.110 J
Vanadium	7440-62-2	--	39	--	100	--	28.9	24.6	27.6	26.6	28.5	25.6	26.7	26.4	28	23.9
Zinc	7440-66-6	2480	109	109	2200	10000	70.8	84.5	71.9	73.9	78.6	78.7	78.4	74.3	78.6	70.5
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0350 J	0.0458 J	0.0382 J	0.0413 J	0.0312 J	0.0513 J	0.0761 J	0.0411 J	0.0441 J	0.0319 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB38 5/25/2017 OU1EESB38-S-0.17- 0.17-0.5 REG	OU1EESB38 5/25/2017 OU1EESB38-S-1.00- 1-2 REG	OU1EESB38 5/25/2017 OU1EESB38-SD-0.50- 0.5-1 FD	OU1EESB39 5/25/2017 OU1EESB39-S-0.17- 0.17-0.5 REG	OU1EESB39 5/25/2017 OU1EESB39-S-1.00- 1-2 REG	OU1EESB40 5/25/2017 OU1EESB40-S-0.17- 0.17-0.5 REG	OU1EESB40 6/1/2017 OU1EESB40-S-0.50- 0.5-1 REG	OU1EESB41 6/1/2017 OU1EESB41-S-0.17- 0.17-0.5 REG	OU1EESB41 6/1/2017 OU1EESB41-S-0.50- 0.5-1 REG	OU1EESB41 6/1/2017 OU1EESB41-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.01 J	0.005 J	< 0.005	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	< 0.004	< 0.004	< 0.003	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.004	< 0.004	< 0.003	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.21	0.082	0.082	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0006	< 0.0006	< 0.0006	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	0.026 J	< 0.024	< 0.023	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB38 5/25/2017 OU1EESB38-S-0.17- 0.17-0.5 REG	OU1EESB38 5/25/2017 OU1EESB38-S-1.00- 1-2 REG	OU1EESB38 5/25/2017 OU1EESB38-SD-0.50- 0.5-1 FD	OU1EESB39 5/25/2017 OU1EESB39-S-0.17- 0.17-0.5 REG	OU1EESB39 5/25/2017 OU1EESB39-S-1.00- 1-2 REG	OU1EESB39 6/1/2017 OU1EESB40-S-0.17- 0.17-0.5 REG	OU1EESB40 6/1/2017 OU1EESB40-S-0.50- 0.5-1 REG	OU1EESB41 6/1/2017 OU1EESB41-S-0.17- 0.17-0.5 REG	OU1EESB41 6/1/2017 OU1EESB41-S-0.50- 0.5-1 REG	OU1EESB41 6/1/2017 OU1EESB41-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.12	< 0.12	< 0.13	< 0.11	< 0.14	< 0.14	< 0.12	< 0.12	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.080	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.36	< 0.35	< 0.36	< 0.4	< 0.33	< 0.42	< 0.42	< 0.37	< 0.35	< 0.36
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.008	< 0.008	< 0.009	< 0.007	< 0.009	< 0.009	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.12	< 0.12	< 0.13	< 0.11	< 0.14	< 0.14	< 0.12	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.19	< 0.2	< 0.22	< 0.18	< 0.24	< 0.24	< 0.23	< 0.21	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.04	< 0.038	< 0.04	< 0.044	< 0.037	< 0.047	< 0.047	< 0.041	< 0.039	< 0.04
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.024	< 0.023	< 0.021	< 0.019
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.19	< 0.2	< 0.22	< 0.18	< 0.24	< 0.24	< 0.21	< 0.19	< 0.2
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004	< 0.005	< 0.005	0.007 J	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.020	< 0.019	< 0.020	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.020
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J	< 0.005	0.005 J	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.040	< 0.038	< 0.040	< 0.044	< 0.037	< 0.047	< 0.047	< 0.041	< 0.039	< 0.040
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.080	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.11 J	< 0.082	< 0.078	< 0.079
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.005 J	< 0.004	< 0.004	0.022 J	< 0.004	0.011 J	0.005 J	0.01 J	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.007 J	< 0.004	< 0.004	0.012 J	< 0.004	0.012 J	< 0.005	0.014 J	< 0.004	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.01 J	< 0.004	0.004 J	0.015 J	< 0.004	0.022 J	0.009 J	0.021 J	< 0.004	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.005 J	< 0.004	< 0.004	0.008 J	< 0.004	< 0.005	0.005 J	0.011 J	< 0.004	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.005 J	< 0.004	< 0.004	0.006 J	< 0.004	< 0.005	< 0.005	0.01 J	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.0	

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB38 5/25/2017 OU1EESB38-S-0.17- 0.17-0.5 REG	OU1EESB38 5/25/2017 OU1EESB38-S-1.00- 1-2 REG	OU1EESB38 5/25/2017 OU1EESB38-SD-0.50- 0.5-1 FD	OU1EESB39 5/25/2017 OU1EESB39-S-0.17- 0.17-0.5 REG	OU1EESB39 5/25/2017 OU1EESB39-S-1.00- 1-2 REG	OU1EESB40 6/1/2017 OU1EESB40-S-0.17- 0.17-0.5 REG	OU1EESB40 6/1/2017 OU1EESB40-S-0.50- 0.5-1 REG	OU1EESB41 6/1/2017 OU1EESB41-S-0.17- 0.17-0.5 REG	OU1EESB41 6/1/2017 OU1EESB41-S-0.50- 0.5-1 REG	OU1EESB41 6/1/2017 OU1EESB41-S-1.00- 1-2 REG	
Polychlorinated Biphenyls																	
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0044	< 0.0042	< 0.0043
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0056	< 0.0054	< 0.0055
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0097	< 0.0094	< 0.0096
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.0039	< 0.004
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.0039	< 0.004
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.0039	< 0.004
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.006	< 0.0057	< 0.0059
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.0039	< 0.004
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.0039	< 0.004
Pesticides																	
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	0.00065 JP	< 0.00039	< 0.00039
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	0.0014 J	< 0.00039	< 0.00039
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	0.00063 JP	< 0.00041	< 0.00042
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	< 0.00021	< 0.0002	< 0.0002
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	< 0.00021	< 0.0002	< 0.0002
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	< 0.00021	< 0.0002	< 0.0002
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	< 0.00037	< 0.00035	< 0.00036
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	< 0.00055	< 0.00053	< 0.00054
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	< 0.0004	< 0.00039	< 0.00039
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	< 0.00027	< 0.00026	< 0.00026
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	< 0.0004	< 0.00039	< 0.00039
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	< 0.0004	< 0.00039	< 0.00039
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	< 0.0004	< 0.00039	< 0.00039
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0004	< 0.00039	< 0.00039
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00074	< 0.00071	< 0.00072
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	< 0.00021	< 0.0002	< 0.0002
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	< 0.00021	< 0.0002	< 0.0002
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	< 0.00021	< 0.0002	< 0.0002
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	< 0.00021	< 0.0002	< 0.0002
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	< 0.0021	< 0.002	< 0.002
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.017	< 0.017	< 0.017
Metals																	
Aluminum	7429-90-5	--	10000	--	--	--	17,200	16,800	18,700	15,800	15,700	19,100	18,600	17,000	16,700	21,400	
Antimony	7440-36-0	--	12	--	--	--	0.170 J	< 0.0816	< 0.0944	0.201 J	< 0.0896	0.238 J	0.141 J	0.153 J	< 0.0957	0.133 J	
Arsenic	7440-38-2	16	13	13	16	16	6.34	4.94	5.7	7.24	5.9	6.27	4.82	5.9	4.42	5.15	
Barium	7440-39-3	820	433	350	350	400	59.9	60.8	67.7	44	44.6	67.4	71.4	66.3	60	97.4	
Beryllium	7440-41-7	47	10	7.2	14	72	0.865	0.7	0.919	0.672	0.708	0.922	0.975	0.705	0.713	1.05	
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0854 J	0.0631 J	0.0613 J	0.142 J	0.0993 J	0.0538 J	0.0702 J	0.104 J	0.0795 J	0.0808 J	
Calcium	7440-70-2	--	10000	--	--	--	280	266	325	334	288	434	374	511	302	397	
Chromium	7440-47-3	--	--	30	36	180	16.1	16.3	17.5	15.9	16.3	17.8	16.3	18.5	18.2	21.3	
Cobalt	7440-48-4	--	20	--	30	--	8.61	9.73	9.89	10.2	12.2	9.66	8.28	10.4	10.4	11.4	
Copper	7440-50-8	1720	50	50	270	270	11.8	14.8	11.1	15.9	19.7	16.2	15.9	16.5	16.6	17	
Iron	7439-89-6	--	--	--	2000	--	21,700	24,300	24,900	24,800	28,500	22,600	21,500	24,300	25,100	26,800	
Lead	7439-92-1	450	63	63	400	400	15.7	10	11.2	25	13.3	22.1	13.2	23.5	11.4	14.3	
Magnesium	7439-95-4	--	--	--	--	--	3,940	4,870	4,560	4,640	5,620	4,360	3,960	4,780	4,860	4,910	
Manganese	7439-96-5	2000	1600	1600	2000	2000	709	452	704	569	734	787	777	723	773	952 E	
Nickel	7440-02-0	130	30	30	140	310	19	20.2	22.9	20.3	23.2	20.2	19	22.1	22.4	25.1	
Potassium	7440-09-7	--	--	--	--	--	934	1,230	1,180	1,340	1,330	1,070	964	1,570	1,140	1,350	
Selenium	7782-49-2	4	3.9	3.9	36	180	0.407 J	0.190 J	0.276 J	0.411 J	0.127 J	0.486 J	0.301 J	0.409 J	0.268 J	0.317 J	
Silver	7440-22-4	8.3	2	2	36	180	0.0995 J	0.0518 J	0.0654 J	0.0749 J	< 0.0215	0.151 J	0.134 J	0.0750 J	0.0468 J	0.0927 J	
Sodium	7440-23-5	--	--	--	--	--	40.6 J	42.1 J	41.8 J	43.7 J	47.9 J	44.7 J	36.0 J	44.3 J	37.7 J	42.6 J	
Thallium	7440-28-0	--	5	--	--	--	0.146 J	0.111 J	0.139 J	0.134 J	0.108 J	0.171 J	0.149 J	0.129 J	0.0928 J	0.162 J	
Vanadium	7440-62-2	--	39	--	100	--	25.8	22.9	25.6	24.8	21	27.8	24.8	26.8	21.2	28.3	
Zinc	7440-66-6	2480	109	109	2200	10000	71.5	65.4	76.6	66.3	67.3	80.5	79.8	70.7	63.7	81.9	
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0397 J	0.0244 J	0.0324 J	0.0717 J	0.0244 J	0.137 J	0.0553 J	0.0696 J	0.0274 J	0.0286 J	

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB42 5/26/2017 OU1EESB42-S-0.17- 0.17-0.5 REG	OU1EESB42 5/26/2017 OU1EESB42-S-1.00- 1-2 REG	OU1EESB43 5/30/2017 OU1EESB43-S-0.17- 0.17-0.5 REG	OU1EESB43 5/30/2017 OU1EESB43-S-0.50- 0.5-1 REG	OU1EESB44 5/30/2017 OU1EESB44-S-0.17- 0.17-0.5 REG	OU1EESB44 5/30/2017 OU1EESB44-S-0.50- 0.5-1 REG	OU1EESB44 5/30/2017 OU1EESB44-S-1.00- 1-2 REG	OU1EESB45 5/31/2017 OU1EESB45-S-0.17- 0.17-0.5 REG	OU1EESB45 5/31/2017 OU1EESB45-S-0.50- 0.5-1 REG	OU1EESB45 5/31/2017 OU1EESB45-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	< 0.001	< 0.001	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	< 0.001	< 0.001	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	0.016	0.015	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	< 0.004	< 0.004	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	< 0.004	< 0.004	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	0.35	0.21	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	< 0.0006	< 0.0007	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	0.003 J	0.01	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	< 0.0006	< 0.0007	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	< 0.002	< 0.003	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	0.054 J	< 0.026	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	< 0.002	< 0.003	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	< 0.001	< 0.001	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	< 0.001	< 0.001	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB42 5/26/2017 OU1EESB42-S-0.17- 0.17-0.5 REG	OU1EESB42 5/26/2017 OU1EESB42-S-1.00- 1-2 REG	OU1EESB43 5/30/2017 OU1EESB43-S-0.17- 0.17-0.5 REG	OU1EESB43 5/30/2017 OU1EESB43-S-0.50- 0.5-1 REG	OU1EESB44 5/30/2017 OU1EESB44-S-0.17- 0.17-0.5 REG	OU1EESB44 5/30/2017 OU1EESB44-S-0.50- 0.5-1 REG	OU1EESB44 5/30/2017 OU1EESB44-S-1.00- 1-2 REG	OU1EESB45 5/31/2017 OU1EESB45-S-0.17- 0.17-0.5 REG	OU1EESB45 5/31/2017 OU1EESB45-S-0.50- 0.5-1 REG	OU1EESB45 5/31/2017 OU1EESB45-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.14	< 0.12	< 0.12	< 0.15	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.42	< 0.35	< 0.37	< 0.46	< 0.39	< 0.4	< 0.36	< 0.39	< 0.37	< 0.36
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.008	< 0.008	< 0.01	< 0.009	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.005 J	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.14	< 0.12	< 0.12	< 0.15	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.23	< 0.2	< 0.21	< 0.26	< 0.22	< 0.22	< 0.2	< 0.22	< 0.21	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.047	< 0.039	< 0.041	< 0.052	< 0.044	< 0.044	< 0.041	< 0.043	< 0.041	< 0.04
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.23	< 0.2	< 0.21	< 0.26	< 0.22	< 0.22	< 0.2	< 0.22	< 0.21	< 0.2
Acenaphthene	83-32-9	98	20	20	100	100	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	0.006 J	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	0.007 J	0.006 J	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.023	< 0.020	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
Anthracene	120-12-7	1000	--	100	100	100	0.005 J	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.047	< 0.039	< 0.041	< 0.052	< 0.044	< 0.044	< 0.041	< 0.043	< 0.041	< 0.04
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.011 J	0.007 J	0.008 J	0.006 J	0.01 J	0.005 J	< 0.004	0.015 J	0.006 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.015 J	0.008 J	0.01 J	0.006 J	0.014 J	0.005 J	< 0.004	0.019 J	0.007 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.024	0.013 J	0.017 J	0.009 J	0.016 J	0.007 J	< 0.004	0.022	0.009 J	0.004 J
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.012 J	0.006 J	0.006 J	< 0.005	0.009 J	0.006 J	< 0.004	0.015 J	0.006 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.009 J	0.006 J	0.006 J	< 0.005	0.01 J	< 0.004	< 0.004	0.011 J	0.005 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-Ethylhexyl)phthalate	117-81-7	435														

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB42 5/26/2017 OU1EESB42-S-0.17- 0.17-0.5 REG	OU1EESB42 5/26/2017 OU1EESB42-S-1.00- 1-2 REG	OU1EESB43 5/30/2017 OU1EESB43-S-0.17- 0.17-0.5 REG	OU1EESB43 5/30/2017 OU1EESB43-S-0.50- 0.5-1 REG	OU1EESB44 5/30/2017 OU1EESB44-S-0.17- 0.17-0.5 REG	OU1EESB44 5/30/2017 OU1EESB44-S-0.50- 0.5-1 REG	OU1EESB44 5/30/2017 OU1EESB44-S-1.00- 1-2 REG	OU1EESB45 5/31/2017 OU1EESB45-S-0.17- 0.17-0.5 REG	OU1EESB45 5/31/2017 OU1EESB45-S-0.50- 0.5-1 REG	OU1EESB45 5/31/2017 OU1EESB45-S-1.00- 1-2 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0047	< 0.0044	< 0.0043
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.006	< 0.0057	< 0.0055
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.01	< 0.0099	< 0.0096
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0041	< 0.004
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0041	< 0.004
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0041	< 0.004
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0064	< 0.006	< 0.0059
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0041	< 0.004
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0043	< 0.0041	< 0.004
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	< 0.00043	< 0.0004	< 0.00039
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	0.0026	0.00098 J	0.00055 J
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	0.0017 J	< 0.00043	< 0.00042
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	< 0.00022	< 0.00021	< 0.0002
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	< 0.00022	< 0.00021	< 0.0002
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	0.0003 J	0.00081	< 0.0002
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	0.0012 J	< 0.00037	< 0.00036
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	< 0.00058	< 0.00055	< 0.00054
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	< 0.00043	< 0.0004	< 0.00039
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00028	< 0.00027	< 0.00026
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00043	< 0.0004	< 0.00039
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	< 0.00043	< 0.0004	< 0.00039
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	< 0.00063	< 0.0004	< 0.00039
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00043	< 0.0004	< 0.00039
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00078	< 0.00073	< 0.00072
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	< 0.00022	< 0.00021	< 0.0002
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	0.00027 JP	< 0.00021	< 0.0002
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	< 0.00022	< 0.00021	< 0.0002
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	< 0.00022	< 0.00021	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	< 0.0022	< 0.0021	< 0.002
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.018	< 0.017	< 0.017
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	24,200	20,900	16,200	17,100	14,700	16,000	17,200	18,400	21,800	18,400
Antimony	7440-36-0	--	12	--	--	--	0.292 J	0.158 J	0.206 J	0.16 J	0.173 J	< 0.105	< 0.0833	0.378 J	0.234 J	0.187 J
Arsenic	7440-38-2	16	13	13	16	16	9.94	7.12	6.88	6.61	5.79	5.11	5.05	7.99	7.51	7.7
Barium	7440-39-3	820	433	350	350	400	94.7	77.9	52.9	53.4	45.3	48.8	44.4	77.8	78.6	67.2
Beryllium	7440-41-7	47	10	7.2	14	72	1.06	0.896	0.727	0.812	0.729	0.795	0.73	0.806	0.806	0.643
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.123 J	0.0933 J	0.105 J	0.0945 J	0.0633 J	0.0486 J	0.0363 J	0.173 J	0.0911 J	0.0641 J
Calcium	7440-70-2	--	10000	--	--	--	1,660	785	540	584	629	441	300	645	643	352
Chromium	7440-47-3	--	--	30	36	180	27.9	28.3	15.3	17.2	11.6	12.3	15	16.5	20.2	18.8
Cobalt	7440-48-4	--	20	--	30	--	13.3	11	8.82	10.8	5.63	6.46	8.32	7.57	10	10.5
Copper	7440-50-8	1720	50	50	270	270	25.2	18.6	14.9	19.1	9.54	9.51	12.5	10.9	8.45	12.3
Iron	7439-89-6	--	--	--	2000	--	34,800	29,200	21,500	28,400	14,900	15,600	22,600	19,100	23,300	24,400
Lead	7439-92-1	450	63	63	400	400	25.3	19	21.7	18.2	17.8	12.9	10.8	23	15.9	12.6
Magnesium	7439-95-4	--	--	--	--	--	6,980	5,870	3,890	4,980	2,710	2,770	4,110	3,540	4,240	4,240
Manganese	7439-96-5	2000	1600	1600	2000	2000	851	736	715	766	381	447	453	732	740	578
Nickel	7440-02-0	130	30	30	140	310	27.2	23.4	18.6	24.2	12.6	12.9	17.8	17.4	19.8	20
Potassium	7440-09-7	--	--	--	--	--	2,970	2,190	1,070	843	620	586	585	1,250	1,450	1,690
Selenium	7782-49-2	4	3.9	3.9	36	180	0.369 J	0.350 J	0.514 J	0.325 J	0.487 J	0.413 J	0.269 J	0.59 J	0.44 J	0.324 J
Silver	7440-22-4	8.3	2	2	36	180	0.0570 J	0.0447 J	0.0984 J	0.0645 J	0.108 J	0.0907 J	0.0338 J	0.149 J	0.0991 J	0.0701 J
Sodium	7440-23-5	--	--	--	--	--	76.8 J	60.4 J	30.7 J	30 J	81.7 J	27.4 J	25.6 J	41.3 J	50 J	43.7 J
Thallium	7440-28-0	--	5	--	--	--	0.208 J	0.175 J	0.142 J	0.12 J	0.142 J	0.124 J	0.11 J	0.177 J	0.187 J	0.163 J
Vanadium	7440-62-2	--	39	--	100	--	38.7	28.6	22.8	22.2	18.1	18.5	20.4	26.9	28.8	25.8
Zinc	7440-66-6	2480	109	109	2200	10000	88.5	79	66.7	76.7	53.4	53.3	59.8	74.8	76.6	71.1
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0560 J	0.0459 J	0.0921 J	0.063 J	0.0767 J	0.0605 J	0.0344 J	0.0898 J	0.0369 J	0.0298 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB46 5/25/2017 OU1EESB46-S-0.17- 0.17-0.5 REG	OU1EESB46 5/25/2017 OU1EESB46-S-0.50- 0.5-1 REG	OU1EESB46 5/25/2017 OU1EESB46-S-1.00- 1-2 REG	OU1EESB47 5/25/2017 OU1EESB47-S-0.17- 0.17-0.5 REG	OU1EESB47 5/25/2017 OU1EESB47-S-0.50- 0.5-1 REG	OU1EESB47 5/25/2017 OU1EESB47-S-1.00- 1-2 REG	OU1EESB48 5/25/2017 OU1EESB48-S-0.17- 0.17-0.5 REG	OU1EESB48 5/25/2017 OU1EESB48-S-0.50- 0.5-1 REG	OU1EESB48 5/25/2017 OU1EESB48-S-1.00- 1-2 REG	OU1EESB49 6/1/2017 OU1EESB49-S-0.17- 0.17-0.5 REG	
Volatile Organic Compounds																	
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--	< 0.001
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--	< 0.001
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--	< 0.003
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--	< 0.001
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--	< 0.001
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--	< 0.001
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--	< 0.001
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--	< 0.001
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--	0.012 J
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--	0.17
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--	< 0.0006
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--	< 0.001
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--	< 0.001
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--	< 0.001
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--	< 0.001
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--	< 0.001
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--	< 0.001
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--	< 0.0006
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--	< 0.003
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.026
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--	< 0.001
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--	< 0.001
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--	< 0.001
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--	< 0.001
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--	< 0.001

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB46 5/25/2017 OU1EESB46-S-0.17- 0.17-0.5 REG	OU1EESB46 5/25/2017 OU1EESB46-S-0.50- 0.5-1 REG	OU1EESB46 5/25/2017 OU1EESB46-S-1.00- 1-2 REG	OU1EESB47 5/25/2017 OU1EESB47-S-0.17- 0.17-0.5 REG	OU1EESB47 5/25/2017 OU1EESB47-S-0.50- 0.5-1 REG	OU1EESB47 5/25/2017 OU1EESB47-S-1.00- 1-2 REG	OU1EESB48 5/25/2017 OU1EESB48-S-0.17- 0.17-0.5 REG	OU1EESB48 5/25/2017 OU1EESB48-S-0.50- 0.5-1 REG	OU1EESB48 5/25/2017 OU1EESB48-S-1.00- 1-2 REG	OU1EESB49 6/1/2017 OU1EESB49-S-0.17- 0.17-0.5 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.11	< 0.13	< 0.12	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.14
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.075	< 0.088	< 0.082	< 0.088	< 0.080	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.34	< 0.4	< 0.37	< 0.4	< 0.36	< 0.34	< 0.37	< 0.37	< 0.36	< 0.41
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.075	< 0.088	< 0.082	< 0.088	< 0.08	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.006 J	0.005 J	< 0.004	0.007 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.11	< 0.13	< 0.12	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.14
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.075	< 0.088	< 0.082	< 0.088	< 0.08	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.19	< 0.22	< 0.2	< 0.22	< 0.2	< 0.19	< 0.21	< 0.21	< 0.2	< 0.23
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.037	< 0.044	< 0.041	< 0.044	< 0.04	< 0.038	< 0.042	< 0.042	< 0.04	< 0.045
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.019	0.055	< 0.02	0.032 J	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.075	< 0.088	< 0.082	< 0.088	< 0.08	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.19	< 0.22	< 0.2	< 0.22	< 0.2	< 0.19	< 0.21	< 0.21	< 0.2	< 0.23
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	0.012 J	< 0.004	< 0.004	0.006 J	0.004 J	< 0.004	< 0.004	< 0.004	< 0.004	0.007 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.019	< 0.022	< 0.020	< 0.022	< 0.020	< 0.019	< 0.021	< 0.021	< 0.020	< 0.023
Anthracene	120-12-7	1000	--	100	100	100	0.012 J	0.005 J	< 0.004	0.008 J	< 0.004	0.004 J	< 0.004	< 0.004	< 0.004	0.009 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.037	< 0.044	< 0.041	< 0.044	< 0.040	< 0.038	< 0.042	< 0.042	< 0.040	< 0.045
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.075	< 0.088	< 0.082	0.12 J	< 0.080	< 0.076	< 0.083	< 0.083	< 0.081	0.10 J
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.038	0.008 J	< 0.004	0.026	0.013 J	0.011 J	0.008 J	0.005 J	< 0.004	0.022 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.046	0.013 J	0.009 J	0.021 J	0.021	0.011 J	0.009 J	0.004 J	< 0.004	0.027
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.069	0.019 J	0.009 J	0.035	0.031	0.017 J	0.018 J	0.011 J	< 0.004	0.043
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.042	0.01 J	0.008 J	0.023	0.02 J	0.01 J	0.008 J	< 0.004	< 0.004	0.021 J
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.024	0.005 J	0.007 J	0.016 J	0.006 J	0.008 J	< 0.004	< 0.004	< 0.004	0.016 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	0.062	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	0.11 J									

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB46 5/25/2017 OU1EESB46-S-0.17- 0.17-0.5 REG	OU1EESB46 5/25/2017 OU1EESB46-S-0.50- 0.5-1 REG	OU1EESB46 5/25/2017 OU1EESB46-S-1.00- 1-2 REG	OU1EESB47 5/25/2017 OU1EESB47-S-0.17- 0.17-0.5 REG	OU1EESB47 5/25/2017 OU1EESB47-S-0.50- 0.5-1 REG	OU1EESB47 5/25/2017 OU1EESB47-S-1.00- 1-2 REG	OU1EESB48 5/25/2017 OU1EESB48-S-0.17- 0.17-0.5 REG	OU1EESB48 5/25/2017 OU1EESB48-S-0.50- 0.5-1 REG	OU1EESB48 5/25/2017 OU1EESB48-S-1.00- 1-2 REG	OU1EESB49 6/1/2017 OU1EESB49-S-0.17- 0.17-0.5 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	17,200	17,100	16,600	12,700	15,300	14,000	18,600	18,600	16,800	16,700
Antimony	7440-36-0	--	12	--	--	--	0.134 J	0.146 J	< 0.105	0.241 J	0.133 J	0.109 J	< 0.121	< 0.0850	< 0.101	0.370 J
Arsenic	7440-38-2	16	13	13	16	16	7.17	5.99	5.02	5.23	5.08	5.4	5.49	5.04	4.87	7.6
Barium	7440-39-3	820	433	350	350	400	62.5	78.6	89.9	63.9	55.8	45.5	74.9	88.5	70.9	63.6
Beryllium	7440-41-7	47	10	7.2	14	72	0.741	0.924	1.14	0.55	0.616	0.547	0.834	0.9	0.586	0.829
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.181 J	0.140 J	0.124 J	0.162 J	0.0995 J	0.111 J	0.0919 J	0.101 J	0.0590 J	0.172 J
Calcium	7440-70-2	--	10000	--	--	--	3,340	2,480	1,790	1,600	937	765	430	439	362	1,140
Chromium	7440-47-3	--	--	30	36	180	19.1	15.8	14.4	12.9	15.5	14.7	16.8	16.2	16.7	14.8
Cobalt	7440-48-4	--	20	--	30	--	11.2	9.54	8.7	6.84	9.28	8.78	8.94	9.22	10.5	7.93
Copper	7440-50-8	1720	50	50	270	270	26.5	12	13.6	13.9	15	15.4	13.9	12.4	12.8	15.9
Iron	7439-89-6	--	--	--	2000	--	30,200	20,200	19,900	18,300	21,100	22,600	22,300	21,200	21,800	21,200
Lead	7439-92-1	450	63	63	400	400	19.7	15.3	12.6	24.8	19.6	15.6	16.4	14	11.6	27.4
Magnesium	7439-95-4	--	--	--	--	--	8,020	4,900	4,050	3,480	4,200	4,080	4,030	3,770	3,740	3,680
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,010	889	1,220 E	540	603	475	733	1,150 E	676	943
Nickel	7440-02-0	130	30	30	140	310	26.5	18.2	19.6	18.7	19	20	20.1	19.1	18.8	17.4
Potassium	7440-09-7	--	--	--	--	--	1,470	1,040	1,060	953	1,210	992	1,200	923	1,100	1,010
Selenium	7782-49-2	4	3.9	3.9	36	180	0.220 J	0.350 J	0.278 J	0.404 J	0.376 J	0.251 J	0.391 J	0.332 J	0.279 J	0.544 J
Silver	7440-22-4	8.3	2	2	36	180	0.132 J	0.129 J	0.105 J	0.0929 J	0.0740 J	0.0438 J	0.100 J	0.102 J	0.0514 J	0.117 J
Sodium	7440-23-5	--	--	--	--	--	47.2 J	58.2 J	42.2 J	30.1 J	35.8 J	28.3 J	36.6 J	33.8 J	36.3 J	40.2 J
Thallium	7440-28-0	--	5	--	--	--	0.107 J	0.145 J	0.116 J	0.107 J	0.133 J	0.0963 J	0.176 J	0.161 J	0.163 J	0.165 J
Vanadium	7440-62-2	--	39	--	100	--	25.5	21.7	20.1	24.6	24.8	21.5	24.7	22.9	24.2	29
Zinc	7440-66-6	2480	109	109	2200	10000	87.8	70.9	69.5	65	63.3	62.8	79.8	82	77.7	88
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.159	0.187	0.0433 J	0.0574 J	0.0437 J	0.0479 J	0.0539 J	0.0239 J	0.0319 J	0.104 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB49 6/1/2017 OU1EESB49-S-0.50- 0.5-1 REG	OU1EESB49 6/1/2017 OU1EESB49-S-1.00- 1-2 REG	OU1EESB49 6/1/2017 OU1EESB49-SD-0.50- 0.5-1 FD	OU1EESB50 5/24/2017 OU1EESB50-S-0.17- 0.17-0.5 REG	OU1EESB50 5/24/2017 OU1EESB50-S-0.50- 0.5-1 REG	OU1EESB50 5/24/2017 OU1EESB50-S-1.00- 1-2 REG	OU1EESB51 5/24/2017 OU1EESB51-S-0.17- 0.17-0.5 REG	OU1EESB51 5/24/2017 OU1EESB51-S-0.50- 0.5-1 REG	OU1EESB51 5/24/2017 OU1EESB51-S-1.00- 1-2 REG	OU1EESB52 5/25/2017 OU1EESB52-S-0.17- 0.17-0.5 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.018	0.01 J	0.005 J	--	--	--	--	--	--	0.012 J
2-Hexanone	591-78-6	--	--	--	--	--	< 0.003	< 0.003	< 0.003	--	--	--	--	--	--	< 0.005
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.003	< 0.003	< 0.003	--	--	--	--	--	--	< 0.005
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.12	0.099	0.065	--	--	--	--	--	--	0.16
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0005	< 0.0006	< 0.0005	--	--	--	--	--	--	< 0.0008
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0005	< 0.0006	< 0.0005	--	--	--	--	--	--	< 0.0008
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	< 0.022	< 0.023	< 0.021	--	--	--	--	--	--	< 0.032
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--	--	--	--	--	--	< 0.003
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	--	--	--	--	--	--	< 0.002

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB49 6/1/2017 OU1EESB49-S-0.50- 0.5-1 REG	OU1EESB49 6/1/2017 OU1EESB49-S-1.00- 1-2 REG	OU1EESB49 6/1/2017 OU1EESB49-SD-0.50- 0.5-1 FD	OU1EESB50 5/24/2017 OU1EESB50-S-0.17- 0.17-0.5 REG	OU1EESB50 5/24/2017 OU1EESB50-S-0.50- 0.5-1 REG	OU1EESB50 5/24/2017 OU1EESB50-S-1.00- 1-2 REG	OU1EESB51 5/24/2017 OU1EESB51-S-0.17- 0.17-0.5 REG	OU1EESB51 5/24/2017 OU1EESB51-S-0.50- 0.5-1 REG	OU1EESB51 5/24/2017 OU1EESB51-S-1.00- 1-2 REG	OU1EESB52 5/25/2017 OU1EESB52-S-0.17- 0.17-0.5 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.085	< 0.089	< 0.083	< 0.080	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.38	< 0.4	< 0.37	< 0.36	< 0.34	< 0.35	< 0.37	< 0.37	< 0.35	< 0.42
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.009	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.008 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.13	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.21	< 0.22	< 0.21	< 0.2	< 0.19	< 0.19	< 0.2	< 0.21	< 0.19	< 0.23
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.043	< 0.045	< 0.042	< 0.04	< 0.038	< 0.038	< 0.041	< 0.041	< 0.039	< 0.047
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.21	< 0.22	< 0.21	< 0.2	< 0.19	< 0.19	< 0.2	< 0.21	< 0.19	< 0.23
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J
Acetophenone	98-86-2	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.020	< 0.019	< 0.019	< 0.020	< 0.021	< 0.019	< 0.023
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.043	< 0.045	< 0.042	< 0.040	< 0.038	< 0.038	< 0.041	< 0.041	< 0.039	< 0.047
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.085	< 0.089	< 0.083	< 0.080	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.01 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.005 J	< 0.004	0.01 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.01 J
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.007 J	0.008 J	< 0.004	0.011 J	< 0.004	< 0.004	< 0.004	0.017 J	0.009 J	0.017 J
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	< 0.004	0.007 J	0.004 J	0.008 J
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.008 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021		

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB49 6/1/2017 OU1EESB49-S-0.50- 0.5-1 REG	OU1EESB49 6/1/2017 OU1EESB49-S-1.00- 1-2 REG	OU1EESB49 6/1/2017 OU1EESB49-SD-0.50- 0.5-1 FD	OU1EESB50 5/24/2017 OU1EESB50-S-0.17- 0.17-0.5 REG	OU1EESB50 5/24/2017 OU1EESB50-S-0.50- 0.5-1 REG	OU1EESB50 5/24/2017 OU1EESB50-S-1.00- 1-2 REG	OU1EESB51 5/24/2017 OU1EESB51-S-0.17- 0.17-0.5 REG	OU1EESB51 5/24/2017 OU1EESB51-S-0.50- 0.5-1 REG	OU1EESB51 5/24/2017 OU1EESB51-S-1.00- 1-2 REG	OU1EESB52 5/25/2017 OU1EESB52-S-0.17- 0.17-0.5 REG	
Polychlorinated Biphenyls																	
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																	
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																	
Aluminum	7429-90-5	--	10000	--	--	--	9,780	16,200	15,300	18,900	20,000	18,800	21,600	21,700	15,100	23,800	
Antimony	7440-36-0	--	12	--	--	--	< 0.122	0.120 J	0.121 J	0.129 J	0.121 J	0.133 J	0.172 J	0.121 J	< 0.0773	0.273 J	
Arsenic	7440-38-2	16	13	13	16	16	3.62	6.14	5.64	6.55	7.23	7.18	5.72	4.56	5.02	6.49	
Barium	7440-39-3	820	433	350	350	400	32	56.2	50.9	97.7	93.1	73.7	74.4	77.1	51.6	87	
Beryllium	7440-41-7	47	10	7.2	14	72	0.414	0.642	0.717	0.886	0.907	0.891	0.992	1	0.592	1.04	
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0581 J	0.0943 J	0.0646 J	0.139 J	0.0812 J	0.0933 J	0.122 J	0.137 J	0.0592 J	0.0880 J	
Calcium	7440-70-2	--	10000	--	--	--	230	538	371	981	825	964	572	397	373	383	
Chromium	7440-47-3	--	--	30	36	180	8.85	16.4	14.2	21.7	23.8	21.2	21.1	21.8	17.2	24	
Cobalt	7440-48-4	--	20	--	30	--	4.65	9.47	8.31	15.4	15.7	14.6	11.6	11.7	11.5	14.8	
Copper	7440-50-8	1720	50	50	270	270	8.03	17.4	13.2	23.4	30.1	28.9	17.6	16.1	18.7	23.7	
Iron	7439-89-6	--	--	--	2000	--	13,800	26,300	22,200	29,600	33,200	31,300	26,200	25,700	23,900	32,200	
Lead	7439-92-1	450	63	63	400	400	6.81	14.1	11.4	19.6	14.6	17.2	21.9	14.2	12.9	23.5	
Magnesium	7439-95-4	--	--	--	--	--	2,350	4,480	3,740	5,700	6,320	6,010	5,050	4,890	4,640	6,020	
Manganese	7439-96-5	2000	1600	1600	2000	2000	454	670	797	1,030	835	887	994	825	514	989	
Nickel	7440-02-0	130	30	30	140	310	10.2	19.3	16.6	26.8	30.8	28.1	23.8	23.2	20.9	30.1	
Potassium	7440-09-7	--	--	--	--	--	671	1,190	846	1,700	2,340	2,320	1,490	1,560	1,260	1,770	
Selenium	7782-49-2	4	3.9	3.9	36	180	0.180 J	0.259 J	0.284 J	0.365 J	0.257 J	0.238 J	0.433 J	0.317 J	0.259 J	0.549 J	
Silver	7440-22-4	8.3	2	2	36	180	0.0363 J	0.0354 J	0.0533 J	0.0273 J	< 0.0181	< 0.0242	0.0588 J	0.0496 J	0.0189 J	0.0580 J	
Sodium	7440-23-5	--	--	--	--	--	26.6 J	35.4 J	30.3 J	51.8 J	53.5 J	54.7 J	43.8 J	43.1 J	32.6 J	50.2 J	
Thallium	7440-28-0	--	5	--	--	--	0.0772 J	0.120 J	0.102 J	0.157 J	0.124 J	0.113 J	0.181 J	0.195 J	0.102 J	0.210 J	
Vanadium	7440-62-2	--	39	--	100	--	13.5	24.4	22	28.9	27.5	26.5	34.7	29.1	21.7	33.5	
Zinc	7440-66-6	2480	109	109	2200	10000	38.6	75.5	65.4	73.7	76.3	79.2	101	107	69.6	106	
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0406 J	0.0415 J	0.0306 J	0.0461 J	0.0308 J	0.0395 J	0.0625 J	0.0360 J	0.0207 J	0.0632 J	

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB52 5/25/2017 OU1EESB52-S-0.50- 0.5-1 REG	OU1EESB52 5/25/2017 OU1EESB52-S-1.00- 1-2 REG	OU1EESB53 5/25/2017 OU1EESB53-S-0.17- 0.17-0.5 REG	OU1EESB53 5/25/2017 OU1EESB53-S-0.50- 0.5-1 REG	OU1EESB53 5/25/2017 OU1EESB53-S-1.00- 1-2 REG	OU1EESB54 5/25/2017 OU1EESB54-S-0.17- 0.17-0.5 REG	OU1EESB54 5/25/2017 OU1EESB54-S-0.50- 0.5-1 REG	OU1EESB54 5/25/2017 OU1EESB54-S-1.00- 1-2 REG	OU1EESB55 5/26/2017 OU1EESB55-S-0.17- 0.17-0.5 REG	OU1EESB55 5/26/2017 OU1EESB55-S-0.50- 0.5-1 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.001	--	< 0.001	< 0.001	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.001	--	< 0.001	< 0.001	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	--	< 0.003	< 0.002	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.001	--	< 0.001	< 0.001	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.001	--	< 0.001	< 0.001	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.001	--	< 0.001	< 0.001	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.007 J	< 0.005	0.005 J	0.006 J	< 0.004	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.004	< 0.003	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.004	< 0.003	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.17	0.071	0.097	0.093	0.056	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0006	< 0.0006	< 0.0006	< 0.0007	< 0.0005	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0006	< 0.0006	< 0.0006	< 0.0007	< 0.0005	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	0.034 J	< 0.023	< 0.023	< 0.026	< 0.021	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB52 5/25/2017 OU1EESB52-S-0.50- 0.5-1 REG	OU1EESB52 5/25/2017 OU1EESB52-S-1.00- 1-2 REG	OU1EESB53 5/25/2017 OU1EESB53-S-0.17- 0.17-0.5 REG	OU1EESB53 5/25/2017 OU1EESB53-S-0.50- 0.5-1 REG	OU1EESB53 5/25/2017 OU1EESB53-S-1.00- 1-2 REG	OU1EESB53 5/25/2017 OU1EESB53-S-0.17- 0.17-0.5 REG	OU1EESB54 5/25/2017 OU1EESB54-S-0.50- 0.5-1 REG	OU1EESB54 5/25/2017 OU1EESB54-S-1.00- 1-2 REG	OU1EESB55 5/26/2017 OU1EESB55-S-0.17- 0.17-0.5 REG	OU1EESB55 5/26/2017 OU1EESB55-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.11	< 0.13	< 0.14	< 0.12	< 0.14	< 0.12	< 0.11	< 0.13	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.079	< 0.075	< 0.084	< 0.090	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.36	< 0.34	< 0.38	< 0.41	< 0.35	< 0.42	< 0.35	< 0.34	< 0.4	< 0.39
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.079	< 0.075	< 0.084	< 0.09	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008	< 0.009	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.11	< 0.13	< 0.14	< 0.12	< 0.14	< 0.12	< 0.11	< 0.13	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.079	< 0.075	< 0.084	< 0.09	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.19	< 0.21	< 0.23	< 0.19	< 0.24	< 0.19	< 0.19	< 0.22	< 0.21
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.04	< 0.038	< 0.042	< 0.045	< 0.038	< 0.047	< 0.039	< 0.038	< 0.044	< 0.043
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.079	< 0.075	< 0.084	< 0.09	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.19	< 0.21	< 0.23	< 0.19	< 0.24	< 0.19	< 0.19	< 0.22	< 0.21
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.020	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.040	< 0.038	< 0.042	< 0.045	< 0.038	< 0.047	< 0.039	< 0.038	< 0.044	< 0.043
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.079	< 0.075	< 0.084	< 0.090	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	< 0.004	0.009 J	< 0.004	< 0.004	0.009 J	< 0.004	< 0.004	0.007 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	< 0.004	0.01 J	0.005 J	0.004 J	0.009 J	< 0.004	< 0.004	0.009 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	< 0.004	0.018 J	0.007 J	0.005 J	0.016 J	< 0.004	< 0.004	0.015 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	< 0.004	0.008 J	< 0.004	< 0.004	0.009 J	< 0.004	< 0.004	0.008 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.009 J	< 0.004	< 0.004	0.007 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.0				

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB52 5/25/2017 OU1EESB52-S-0.50- 0.5-1 REG	OU1EESB52 5/25/2017 OU1EESB52-S-1.00- 1-2 REG	OU1EESB53 5/25/2017 OU1EESB53-S-0.17- 0.17-0.5 REG	OU1EESB53 5/25/2017 OU1EESB53-S-0.50- 0.5-1 REG	OU1EESB53 5/25/2017 OU1EESB53-S-1.00- 1-2 REG	OU1EESB54 5/25/2017 OU1EESB54-S-0.17- 0.17-0.5 REG	OU1EESB54 5/25/2017 OU1EESB54-S-0.50- 0.5-1 REG	OU1EESB54 5/25/2017 OU1EESB54-S-1.00- 1-2 REG	OU1EESB55 5/26/2017 OU1EESB55-S-0.17- 0.17-0.5 REG	OU1EESB55 5/26/2017 OU1EESB55-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	18,000	16,600	19,400	27,600	25,000	25,700	22,800	23,300	24,300	25,300
Antimony	7440-36-0	--	12	--	--	--	< 0.103	0.131 J	0.282 J	0.195 J	0.253 J	0.382 J	0.240 J	0.278 J	0.326 J	0.272 J
Arsenic	7440-38-2	16	13	13	16	16	5.13	6.22	5.43	6.62	7.48	6.98	6.87	7.52	6.5	7.89
Barium	7440-39-3	820	433	350	350	400	62.4	51.1	82.5	114	94.4	101	83	77.7	87	92.4
Beryllium	7440-41-7	47	10	7.2	14	72	0.784	0.645	0.727	1.06	1.08	1.15	0.846	0.902	1.04	1.04
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0501 J	0.0475 J	0.118 J	0.0811 J	0.0915 J	0.0581 J	0.0722 J	0.0866 J	0.0976 J	0.0776 J
Calcium	7440-70-2	--	10000	--	--	--	210	196	1,410	1,450	1,120	526	319	565	446	225
Chromium	7440-47-3	--	--	30	36	180	19.2	19.5	20.1	28.2	27.2	25.1	23.9	26.2	23.9	28.7
Cobalt	7440-48-4	--	20	--	30	--	11.4	13.1	7.53	11.8	14.5	11.3	12.2	17.8	11.3	14.6
Copper	7440-50-8	1720	50	50	270	270	18.5	23.1	14.2	17.8	21.6	18.7	20.6	28.6	19.5	32.6
Iron	7439-89-6	--	--	--	2000	--	26,500	28,900	22,400	32,700	38,500	30,400	32,800	31,900	28,600	36,700
Lead	7439-92-1	450	63	63	400	400	13	13.3	16.4	17.5	21.1	23	13	16.9	23.3	15.4
Magnesium	7439-95-4	--	--	--	--	--	5,140	5,790	4,640	6,460	7,450	5,760	6,540	7,200	5,380	8,350
Manganese	7439-96-5	2000	1600	1600	2000	2000	704	609	532	732	941	1,000	631	729	1,000	680
Nickel	7440-02-0	130	30	30	140	310	25	24.7	18.5	24.7	28	23.1	24.6	28.1	22.4	32.3
Potassium	7440-09-7	--	--	--	--	--	1,380	1,540	1,790	2,650	3,070	2,550	2,480	2,920	2,320	2,720
Selenium	7782-49-2	4	3.9	3.9	36	180	0.322 J	0.217 J	0.476 J	0.478 J	0.305 J	0.456 J	0.334 J	0.263 J	0.476 J	0.349 J
Silver	7440-22-4	8.3	2	2	36	180	0.0375 J	< 0.0268	0.0509 J	0.0346 J	0.0295 J	0.0557 J	< 0.0259	< 0.0206	0.0604 J	0.0233 J
Sodium	7440-23-5	--	--	--	--	--	31.2 J	34.5 J	64.9 J	90.3 J	76.2 J	67.5 J	62.1 J	64.8 J	51.7 J	50.5 J
Thallium	7440-28-0	--	5	--	--	--	0.128 J	0.122 J	0.164 J	0.230 J	0.134 J	0.202 J	0.168 J	0.127 J	0.191 J	0.127 J
Vanadium	7440-62-2	--	39	--	100	--	24.5	22.5	31.6	41.8	36.4	39.9	31.6	31.4	38.2	34.4
Zinc	7440-66-6	2480	109	109	2200	10000	78.1	67.4	65.2	85.3	72.3	87.1	70.2	71.3	86.4	85.8
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0285 J	0.0244 J	0.0423 J	0.0295 J	0.0269 J	0.0571 J	0.0265 J	0.0257 J	0.0393 J	0.0275 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB55 5/26/2017 OU1EESB55-S-1.00- 1-2 REG	OU1EESB56 5/26/2017 OU1EESB56-S-0.17- 0.17-0.5 REG	OU1EESB56 5/26/2017 OU1EESB56-S-0.50- 0.5-1 REG	OU1EESB56 5/26/2017 OU1EESB56-S-1.00- 1-2 REG	OU1EESB57 5/30/2017 OU1EESB57-S-0.17- 0.17-0.5 REG	OU1EESB57 5/30/2017 OU1EESB57-S-0.50- 0.5-1 REG	OU1EESB57 5/30/2017 OU1EESB57-S-1.00- 1-2 REG	OU1EESB58 5/26/2017 OU1EESB58-S-0.17- 0.17-0.5 REG	OU1EESB58 5/26/2017 OU1EESB58-S-0.50- 0.5-1 REG	OU1EESB58 5/26/2017 OU1EESB58-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB55 5/26/2017 OU1EESB55-S-1.00- 1-2 REG	OU1EESB56 5/26/2017 OU1EESB56-S-0.17- 0.17-0.5 REG	OU1EESB56 5/26/2017 OU1EESB56-S-0.50- 0.5-1 REG	OU1EESB56 5/26/2017 OU1EESB56-S-1.00- 1-2 REG	OU1EESB57 5/30/2017 OU1EESB57-S-0.17- 0.17-0.5 REG	OU1EESB57 5/30/2017 OU1EESB57-S-0.50- 0.5-1 REG	OU1EESB57 5/30/2017 OU1EESB57-S-1.00- 1-2 REG	OU1EESB58 5/26/2017 OU1EESB58-S-0.17- 0.17-0.5 REG	OU1EESB58 5/26/2017 OU1EESB58-S-0.50- 0.5-1 REG	OU1EESB58 5/26/2017 OU1EESB58-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.11	< 0.13	< 0.15	< 0.13	< 0.13	< 0.11	< 0.13	< 0.14	< 0.14	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.34	< 0.4	< 0.45	< 0.39	< 0.38	< 0.34	< 0.38	< 0.42	< 0.42	< 0.4
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.009	< 0.01	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.11	< 0.13	< 0.15	< 0.13	< 0.13	< 0.11	< 0.13	< 0.14	< 0.14	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.19	< 0.22	< 0.25	< 0.21	< 0.21	< 0.19	< 0.21	< 0.24	< 0.23	< 0.22
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.038	< 0.044	< 0.05	< 0.043	< 0.042	< 0.038	< 0.042	< 0.047	< 0.046	< 0.045
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.19	< 0.22	< 0.25	< 0.21	< 0.21	< 0.19	< 0.21	< 0.24	< 0.23	< 0.22
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.005	< 0.004	0.006 J	< 0.004	< 0.004	0.007 J	< 0.005	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.005	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.038	< 0.044	< 0.050	< 0.043	< 0.042	< 0.038	< 0.042	< 0.047	< 0.046	< 0.045
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	0.4	< 0.093	< 0.089
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.007 J	< 0.005	< 0.004	0.006 J	< 0.004	0.005 J	0.016 J	< 0.005	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.009 J	< 0.005	< 0.004	0.011 J	0.004 J	0.018 J	< 0.005	< 0.005	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	0.015 J	0.006 J	0.009 J	0.012 J	0.004 J	0.007 J	0.031	0.005 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.007 J	< 0.005	0.005 J	0.009 J	< 0.004	< 0.004	0.014 J	< 0.005	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.005 J	< 0.005	< 0.004	0.006 J	< 0.004	< 0.004	0.013 J	< 0.005	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.				

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB55 5/26/2017 OU1EESB55-S-1.00- 1-2 REG	OU1EESB56 5/26/2017 OU1EESB56-S-0.17- 0.17-0.5 REG	OU1EESB56 5/26/2017 OU1EESB56-S-0.50- 0.5-1 REG	OU1EESB56 5/26/2017 OU1EESB56-S-1.00- 1-2 REG	OU1EESB57 5/30/2017 OU1EESB57-S-0.17- 0.17-0.5 REG	OU1EESB57 5/30/2017 OU1EESB57-S-0.50- 0.5-1 REG	OU1EESB57 5/30/2017 OU1EESB57-S-1.00- 1-2 REG	OU1EESB58 5/26/2017 OU1EESB58-S-0.17- 0.17-0.5 REG	OU1EESB58 5/26/2017 OU1EESB58-S-0.50- 0.5-1 REG	OU1EESB58 5/26/2017 OU1EESB58-S-1.00- 1-2 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	20,900	23,000	25,700	21,300	24,400	20,800	19,900	23,200	24,300	20,200
Antimony	7440-36-0	--	12	--	--	--	0.153 J	0.341 J	0.203 J	0.267 J	0.262 J	0.187 J	0.249 J	0.394 J	0.323 J	0.197 J
Arsenic	7440-38-2	16	13	13	16	16	6.53	6.47	6.39	6.61	7.62	7.13	7.61	8.18	7.02	7.36
Barium	7440-39-3	820	433	350	350	400	72.9	94.3	89.4	83	70.7	55.6	57.7	85.9	81.9	57.8
Beryllium	7440-41-7	47	10	7.2	14	72	0.881	1.07	1.09	0.854	1.15	0.823	0.824	0.974	0.882	0.701
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0653 J	0.106 J	0.100 J	0.0915 J	0.116 J	0.0689 J	0.0787 J	0.130 J	0.0752 J	0.0575 J
Calcium	7440-70-2	--	10000	--	--	--	445	668	520	730	373	173	343	351	314	145
Chromium	7440-47-3	--	--	30	36	180	24.4	33.6	32.2	25.5	23.3	22.5	21.9	23.7	26.1	23
Cobalt	7440-48-4	--	20	--	30	--	14	12.3	13.4	13.9	13.3	12.8	14.6	11.9	13.9	12.6
Copper	7440-50-8	1720	50	50	270	270	29.3	20.1	25.6	23.1	17.2	26.7	27.2	20.9	23.3	25.8
Iron	7439-89-6	--	--	--	2000	--	37,700	34,800	41,800	33,500	30,700	33,200	30,500	29,400	32,800	34,700
Lead	7439-92-1	450	63	63	400	400	16	22.1	18.3	16.9	21.3	16.2	16.3	26.6	16.7	14.9
Magnesium	7439-95-4	--	--	--	--	--	6,720	6,810	8,770	6,630	5,870	6,360	5,840	5,670	6,600	6,730
Manganese	7439-96-5	2000	1600	1600	2000	2000	710	1,060 E	1,030	747	685	571	587	757	761	597
Nickel	7440-02-0	130	30	30	140	310	28.7	29.6	31.2	29.3	27.4	27.4	26.4	26.8	29.7	27.6
Potassium	7440-09-7	--	--	--	--	--	2,250	1,700	2,030	2,330	1,960	2,000	2,250	2,090	2,390	1,900
Selenium	7782-49-2	4	3.9	3.9	36	180	0.236 J	0.400 J	0.393 J	0.295 J	0.426 J	0.211 J	0.215 J	0.508 J	0.396 J	0.318 J
Silver	7440-22-4	8.3	2	2	36	180	< 0.0191	0.0511 J	0.0394 J	0.0278 J	0.0571 J	0.0244 J	< 0.0296	0.0758 J	0.0396 J	< 0.0280
Sodium	7440-23-5	--	--	--	--	--	52.3 J	59.5 J	69.4 J	76.4 J	49.4 J	37.4 J	45.8 J	53.5 J	52.1 J	40.7 J
Thallium	7440-28-0	--	5	--	--	--	0.124 J	0.153 J	0.140 J	0.139 J	0.171 J	0.137 J	0.112 J	0.204 J	0.168 J	0.111 J
Vanadium	7440-62-2	--	39	--	100	--	28.7	31.1	33.4	30.6	32.5	25.6	26.8	33	32.9	26.7
Zinc	7440-66-6	2480	109	109	2200	10000	77.2	90.1	88.1	78.3	92.8	78.9	76.2	103	99.2	85
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0392 J	0.0570 J	0.0446 J	0.0320 J	0.0523 J	0.0329 J	0.0405 J	0.0795 J	0.0427 J	0.0388 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB59 5/26/2017 OU1EESB59-S-0.17- 0.17-0.5 REG	OU1EESB59 5/26/2017 OU1EESB59-S-0.50- 0.5-1 REG	OU1EESB59 5/26/2017 OU1EESB59-S-1.00- 1-2 REG	OU1EESB59 5/26/2017 OU1EESB59-SD-0.50- 0.5-1 FD	OU1EESB60 5/30/2017 OU1EESB60-S-0.17- 0.17-0.5 REG	OU1EESB60 5/30/2017 OU1EESB60-S-0.50- 0.5-1 REG	OU1EESB60 5/30/2017 OU1EESB60-S-1.00- 1-2 REG	OU1EESB60 5/30/2017 OU1EESB60-SD-1.00- 1-2 FD	OU1EESB61 6/1/2017 OU1EESB61-S-0.17- 0.17-0.5 REG	OU1EESB61 6/1/2017 OU1EESB61-S-0.50- 0.5-1 REG
Volatile Organic Compounds																
1,1-Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.01 J	0.009 J	0.005 J	0.008 J	0.016	0.009 J	0.01 J	0.01 J	--	--
2-Hexanone	591-78-6	--	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.16	0.12	0.081	0.11	0.33	0.13	0.15	0.16	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0007	< 0.0006	< 0.0006	< 0.0006	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	0.005 J	< 0.001	< 0.001	< 0.001	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0007	< 0.0006	< 0.0006	< 0.0006	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	< 0.024	< 0.022	< 0.021	< 0.021	< 0.028	< 0.023	< 0.024	< 0.025	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	< 0.001	0.041	< 0.004 J	< 0.001	< 0.001	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB59 5/26/2017 OU1EESB59-S-0.17- 0.17-0.5 REG	OU1EESB59 5/26/2017 OU1EESB59-S-0.50- 0.5-1 REG	OU1EESB59 5/26/2017 OU1EESB59-S-1.00- 1-2 REG	OU1EESB59 5/26/2017 OU1EESB59-SD-0.50- 0.5-1 FD	OU1EESB60 5/30/2017 OU1EESB60-S-0.17- 0.17-0.5 REG	OU1EESB60 5/30/2017 OU1EESB60-S-0.50- 0.5-1 REG	OU1EESB60 5/30/2017 OU1EESB60-S-1.00- 1-2 REG	OU1EESB60 5/30/2017 OU1EESB60-SD-1.00- 1-2 FD	OU1EESB61 6/1/2017 OU1EESB61-S-0.17- 0.17-0.5 REG	OU1EESB61 6/1/2017 OU1EESB61-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.13	< 0.14	< 0.14	< 0.13	< 0.13	< 0.12	< 0.12	< 0.14	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.088	< 0.087	< 0.090	< 0.091	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.39	< 0.39	< 0.41	< 0.41	< 0.4	< 0.38	< 0.37	< 0.36	< 0.41	< 0.4
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.088	< 0.087	< 0.09	< 0.091	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.13	< 0.14	< 0.14	< 0.13	< 0.13	< 0.12	< 0.12	< 0.14	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.088	< 0.087	< 0.09	< 0.091	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.22	< 0.22	< 0.23	< 0.23	< 0.22	< 0.21	< 0.21	< 0.2	< 0.23	< 0.22
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.044	< 0.044	< 0.045	< 0.046	< 0.044	< 0.042	< 0.041	< 0.04	< 0.046	< 0.044
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.022	< 0.022	< 0.023	0.12	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.088	< 0.087	< 0.09	< 0.091	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.22	< 0.22	< 0.23	< 0.23	< 0.22	< 0.21	< 0.21	< 0.2	< 0.23	< 0.22
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	0.007 J	< 0.005	0.007 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.022	< 0.022	< 0.023	0.025 J	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	0.005 J	< 0.005	0.01 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.044	< 0.044	< 0.045	< 0.046	< 0.044	< 0.042	< 0.041	< 0.04	< 0.046	< 0.044
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.088	< 0.087	< 0.090	0.15 J	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.014 J	0.005 J	0.02 J	0.012 J	< 0.004	< 0.004	< 0.004	0.008 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.014 J	0.007 J	0.025	0.02 J	< 0.004	< 0.004	< 0.004	0.009 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.006 J	0.027	0.011 J	0.044	0.027	< 0.004	< 0.004	< 0.004	0.019 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.014 J	0.007 J	0.021 J	0.017 J	< 0.004	< 0.004	< 0.004	0.009 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.009 J	< 0.005	0.016 J	0.01 J	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02		

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB59 5/26/2017 OU1EESB59-S-0.17- 0.17-0.5 REG	OU1EESB59 5/26/2017 OU1EESB59-S-0.50- 0.5-1 REG	OU1EESB59 5/26/2017 OU1EESB59-S-1.00- 1-2 REG	OU1EESB59 5/26/2017 OU1EESB59-SD-0.50- 0.5-1 FD	OU1EESB60 5/30/2017 OU1EESB60-S-0.17- 0.17-0.5 REG	OU1EESB60 5/30/2017 OU1EESB60-S-0.50- 0.5-1 REG	OU1EESB60 5/30/2017 OU1EESB60-S-1.00- 1-2 REG	OU1EESB60 5/30/2017 OU1EESB60-SD-1.00- 1-2 FD	OU1EESB61 6/1/2017 OU1EESB61-S-0.17- 0.17-0.5 REG	OU1EESB61 6/1/2017 OU1EESB61-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	23,600	21,100	19,900	20,900	21,100	21,900	17,800	17,400	35,000	25,800
Antimony	7440-36-0	--	12	--	--	--	0.488 J	0.210 J	0.334 J	0.187 J	0.213 J	0.15 J	0.139 J	0.16 J	0.328 J	0.131 J
Arsenic	7440-38-2	16	13	13	16	16	9.06	7.38	8.57	7.04	7.08	6.22	6.56	7.31	12.5	9.21
Barium	7440-39-3	820	433	350	350	400	100	89.5	76.8	86.8	89.5	79.8	61	61.4	285	124
Beryllium	7440-41-7	47	10	7.2	14	72	1.2	0.918	0.842	0.928	1.3	1.12	0.706	0.662	2.18	1.43
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0870 J	0.0600 J	0.0606 J	< 0.0481	0.187	0.0974 J	0.0609 J	0.0551 J	0.456	0.159 J
Calcium	7440-70-2	--	10000	--	--	--	473	313	269	340	1,080	539	200	202	2,740	2,050
Chromium	7440-47-3	--	--	30	36	180	21.2	20.1	22.3	20.3	19	20.2	17.6	17.7	30.9	27.8
Cobalt	7440-48-4	--	20	--	30	--	11	10.8	14.8	11.2	9.3	9.31	9.25	9.67	17.3	10.3
Copper	7440-50-8	1720	50	50	270	270	16.4	15.6	26.2	15.6	14.7	11.5	15.2	16.9	27.1	23
Iron	7439-89-6	--	--	--	2000	--	25,100	25,200	31,200	25,900	23,200	22,900	23,500	25,200	41,200	35,800
Lead	7439-92-1	450	63	63	400	400	29.7	20.1	18.7	14.7	27.7	14.4	10.7	11.2	33.9	14.9
Magnesium	7439-95-4	--	--	--	--	--	4,460	4,580	5,320	4,660	3,920	4,130	4,040	4,250	5,150	4,910
Manganese	7439-96-5	2000	1600	1600	2000	2000	1,210	850	753	888	1,220	819	448	456	4,060	1,510
Nickel	7440-02-0	130	30	30	140	310	26.6	22.1	27.9	22.3	22.4	20.6	19.7	18.8	36.7	28.6
Potassium	7440-09-7	--	--	--	--	--	1,680	1,860	1,850	1,740	1,010	1,180	1,360	1,430	1,810	1,770
Selenium	7782-49-2	4	3.9	3.9	36	180	0.651 J	0.440 J	0.455 J	0.411 J	0.545 J	0.363 J	0.285 J	0.322 J	1.17	0.572 J
Silver	7440-22-4	8.3	2	2	36	180	0.134 J	0.0502 J	0.0413 J	0.0528 J	0.125 J	0.0994 J	0.035 J	0.028 J	0.209 J	0.128 J
Sodium	7440-23-5	--	--	--	--	--	53.8 J	46.3 J	42.4 J	42.6 J	36.5 J	37.2 J	33.6 J	32.8 J	75.4 J	62.6 J
Thallium	7440-28-0	--	5	--	--	--	0.215 J	0.172 J	0.113 J	0.194 J	0.163 J	0.154 J	0.142 J	0.123 J	0.374	0.183 J
Vanadium	7440-62-2	--	39	--	100	--	32.3	28.8	26.6	28.1	26.4	26.4	24.1	23.9	48	39.4
Zinc	7440-66-6	2480	109	109	2200	10000	90.1	74.5	82.8	74.1	82.2	75.1	61.4	56.9	113	80.8
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0940 J	0.0271 J	0.0426 J	0.0315 J	0.0717 J	0.0226 J	0.0302 J	0.0275 J	0.0969 J	0.0873 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB61 6/1/2017 OU1EESB61-S-1.00- 1-2 REG	OU1EESB62 6/1/2017 OU1EESB62-S-0.17- 0.17-0.5 REG	OU1EESB62 6/1/2017 OU1EESB62-S-0.50- 0.5-1 REG	OU1EESB62 6/1/2017 OU1EESB62-S-1.00- 1-2 REG	OU1EESB62 6/1/2017 OU1EESB62-SD-0.50- 0.5-1 FD	OU1EESB63 5/31/2017 OU1EESB63-S-0.17- 0.17-0.5 REG	OU1EESB63 5/31/2017 OU1EESB63-S-0.50- 0.5-1 REG	OU1EESB63 5/31/2017 OU1EESB63-S-1.00- 1-2 REG	OU1EESB64 5/31/2017 OU1EESB64-S-0.17- 0.17-0.5 REG	OU1EESB64 5/31/2017 OU1EESB64-S-0.50- 0.5-1 REG	
Volatile Organic Compounds																	
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	0.008 J	0.005 J
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.003
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.004	< 0.003
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	0.15	0.091
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	< 0.0007	< 0.0006
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	< 0.0007	< 0.0006
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.026	< 0.023
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.003	< 0.002
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB61 6/1/2017 OU1EESB61-S-1.00- 1-2 REG	OU1EESB62 6/1/2017 OU1EESB62-S-0.17- 0.17-0.5 REG	OU1EESB62 6/1/2017 OU1EESB62-S-0.50- 0.5-1 REG	OU1EESB62 6/1/2017 OU1EESB62-S-1.00- 1-2 REG	OU1EESB62 6/1/2017 OU1EESB62-SD-0.50- 0.5-1 FD	OU1EESB63 5/31/2017 OU1EESB63-S-0.17- 0.17-0.5 REG	OU1EESB63 5/31/2017 OU1EESB63-S-0.50- 0.5-1 REG	OU1EESB63 5/31/2017 OU1EESB63-S-1.00- 1-2 REG	OU1EESB64 5/31/2017 OU1EESB64-S-0.17- 0.17-0.5 REG	OU1EESB64 5/31/2017 OU1EESB64-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.14	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.13	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.38	< 0.43	< 0.4	< 0.36	< 0.35	< 0.38	< 0.36	< 0.39	< 0.38	< 0.37
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.01	< 0.009	< 0.008	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.005	0.005 J	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.14	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.13	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.21	< 0.24	< 0.22	< 0.2	< 0.19	< 0.21	< 0.2	< 0.22	< 0.21	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.042	< 0.048	< 0.044	< 0.04	< 0.039	< 0.042	< 0.04	< 0.043	< 0.042	< 0.041
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.21	< 0.24	< 0.22	< 0.2	< 0.19	< 0.21	< 0.2	< 0.22	< 0.21	< 0.2
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	0.004 J	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.020	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.042	< 0.048	< 0.044	< 0.040	< 0.039	< 0.042	< 0.04	< 0.043	< 0.042	< 0.041
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.083	0.12 J	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.018 J	< 0.004	< 0.004	0.008 J	0.006 J	0.009 J	0.008 J	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.021 J	< 0.004	< 0.004	< 0.004	0.01 J	0.009 J	0.009 J	0.005 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	0.034	< 0.004	0.005 J	0.007 J	0.015 J	0.02 J	0.018 J	0.01 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.021 J	< 0.004	0.004 J	0.004 J	0.008 J	0.008 J	0.01 J	0.005 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.018 J	< 0.004	< 0.004	0.004 J	0.005 J	0.008 J	0.007 J	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-Ethylhexyl)																

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB61 6/1/2017 OU1EESB61-S-1.00- 1-2 REG	OU1EESB62 6/1/2017 OU1EESB62-S-0.17- 0.17-0.5 REG	OU1EESB62 6/1/2017 OU1EESB62-S-0.50- 0.5-1 REG	OU1EESB62 6/1/2017 OU1EESB62-S-1.00- 1-2 REG	OU1EESB62 6/1/2017 OU1EESB62-SD-0.50- 0.5-1 FD	OU1EESB63 5/31/2017 OU1EESB63-S-0.17- 0.17-0.5 REG	OU1EESB63 5/31/2017 OU1EESB63-S-0.50- 0.5-1 REG	OU1EESB63 5/31/2017 OU1EESB63-S-1.00- 1-2 REG	OU1EESB64 5/31/2017 OU1EESB64-S-0.17- 0.17-0.5 REG	OU1EESB64 5/31/2017 OU1EESB64-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	21,000	16,400	15,000	17,400	15,700	21,700	17,600	18,000	22,100	18,200
Antimony	7440-36-0	--	12	--	--	--	< 0.117	0.201 J	< 0.110	0.148 J	< 0.0966	0.292 J	0.191 J	0.158 J	0.239 J	0.181 J
Arsenic	7440-38-2	16	13	13	16	16	6.31	5.82	4.92	7.03	5.29	7.24	6.21	5.01	6.8	7.44
Barium	7440-39-3	820	433	350	350	400	92.5	53.3	39.5	58.9	41.2	66.9	54.5	58.6	67	51.1
Beryllium	7440-41-7	47	10	7.2	14	72	0.992	0.549	0.427	0.641	0.535	1.02	0.747	1.03	1	0.715
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.130 J	0.0517 J	< 0.0436	0.0798 J	< 0.0382	0.0952 J	0.0564 J	0.0532 J	0.0643 J	0.0473 J
Calcium	7440-70-2	--	10000	--	--	--	1,620	755	292	759	361	402	245	287	345	220
Chromium	7440-47-3	--	--	30	36	180	23.1	16	16.8	20.3	18.3	42.5	101	28.5	30.8	19.1
Cobalt	7440-48-4	--	20	--	30	--	7.62	5.88	8.03	15.6	9.39	9.55	10.6	8.11	8.2	10.6
Copper	7440-50-8	1720	50	50	270	270	21.8	13.6	14.5	21.8	17.1	15.4	14.9	10.5	13.2	19.5
Iron	7439-89-6	--	--	--	2000	--	31,200	18,100	22,000	27,100	25,100	22,700	25,700	22,000	21,600	26,700
Lead	7439-92-1	450	63	63	400	400	9.72	33.7	9.86	16.4	15.9	20.3	19.4	14.7	17.1	11.8
Magnesium	7439-95-4	--	--	--	--	--	5,220	3,760	4,550	5,330	4,560	4,300	4,810	3,850	3,990	5,150
Manganese	7439-96-5	2000	1600	1600	2000	2000	251	252	214	432	261	888	697	707	735	488
Nickel	7440-02-0	130	30	30	140	310	23.7	16.4	18.3	23.4	20.6	20.2	53.1	18.1	19.1	21.9
Potassium	7440-09-7	--	--	--	--	--	1,840	1,060	998	1,550	970	1,260	1,350	968	1,350	1,630
Selenium	7782-49-2	4	3.9	3.9	36	180	0.241 J	0.509 J	0.260 J	0.192 J	0.349 J	0.514 J	0.291 J	0.305 J	0.517 J	0.355 J
Silver	7440-22-4	8.3	2	2	36	180	0.0945 J	0.109 J	< 0.0265	0.0247 J	0.0403 J	0.104 J	0.0364 J	0.0822 J	0.126 J	0.0461 J
Sodium	7440-23-5	--	--	--	--	--	63.1 J	46.8 J	46.0 J	56.1 J	41.8 J	33.8 J	34.5 J	30.6 J	41.4 J	33.9 J
Thallium	7440-28-0	--	5	--	--	--	0.134 J	0.145 J	0.0988 J	0.120 J	0.0897 J	0.175 J	0.113 J	0.13 J	0.169 J	0.106 J
Vanadium	7440-62-2	--	39	--	100	--	29.3	27.4	20.9	26.8	22	27.5	27.3	22.9	26.9	25.2
Zinc	7440-66-6	2480	109	109	2200	10000	65.7	60.6	55.2	70.8	64	79.8	64.5	67.5	78	65
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0483 J	0.102 J	0.0233 J	0.0244 J	0.0488 J	0.0647 J	0.0444 J	0.0417 J	0.0825 J	0.0319 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB64 5/31/2017 OU1EESB64-S-1.00- 1-2 REG	OU1EESB64 5/31/2017 OU1EESB64-SD-0.50- 0.5-1 FD	OU1EESB65 5/31/2017 OU1EESB65-S-0.17- 0.17-0.5 REG	OU1EESB65 5/31/2017 OU1EESB65-S-0.50- 0.5-1 REG	OU1EESB65 5/31/2017 OU1EESB65-S-1.00- 1-2 REG	OU1EESB66 5/31/2017 OU1EESB66-S-0.17- 0.17-0.5 REG	OU1EESB66 5/31/2017 OU1EESB66-S-0.50- 0.5-1 REG	OU1EESB66 5/31/2017 OU1EESB66-S-1.00- 1-2 REG	OU1EESB67 6/1/2017 OU1EESB67-S-0.17- 0.17-0.5 REG	OU1EESB67 6/1/2017 OU1EESB67-S-0.50- 0.5-1 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.005 J	0.004 J	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	< 0.003	< 0.003	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.003	< 0.003	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.064	0.075	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0005	< 0.0005	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0005	< 0.0005	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	< 0.019	< 0.019	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.002	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.0009	< 0.001	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.0009	< 0.001	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB64 5/31/2017 OU1EESB64-S-1.00- 1-2 REG	OU1EESB64 5/31/2017 OU1EESB64-SD-0.50- 0.5-1 FD	OU1EESB65 5/31/2017 OU1EESB65-S-0.17- 0.17-0.5 REG	OU1EESB65 5/31/2017 OU1EESB65-S-0.50- 0.5-1 REG	OU1EESB65 5/31/2017 OU1EESB65-S-1.00- 1-2 REG	OU1EESB66 5/31/2017 OU1EESB66-S-0.17- 0.17-0.5 REG	OU1EESB66 5/31/2017 OU1EESB66-S-0.50- 0.5-1 REG	OU1EESB66 5/31/2017 OU1EESB66-S-1.00- 1-2 REG	OU1EESB67 6/1/2017 OU1EESB67-S-0.17- 0.17-0.5 REG	OU1EESB67 6/1/2017 OU1EESB67-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.11	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.14
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.34	< 0.35	< 0.38	< 0.36	< 0.35	< 0.38	< 0.36	< 0.35	< 0.39	< 0.43
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.019	< 0.021	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.009	< 0.01
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006 J	< 0.004	< 0.004	< 0.004	< 0.005
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.11	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.14
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.19	< 0.19	< 0.21	< 0.2	< 0.19	< 0.21	< 0.2	< 0.2	< 0.21	< 0.24
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.038	< 0.039	< 0.042	< 0.04	< 0.039	< 0.042	< 0.04	< 0.039	< 0.043	< 0.048
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.19	< 0.19	< 0.21	< 0.2	< 0.19	< 0.21	< 0.2	< 0.2	< 0.21	< 0.24
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	0.004 J	< 0.005
Acetophenone	98-86-2	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.008 J	< 0.004	< 0.004	0.005 J	< 0.005
Atrazine	1912-24-9	--	--	--	--	--	< 0.038	< 0.039	< 0.042	< 0.04	< 0.039	< 0.042	< 0.04	< 0.039	< 0.043	< 0.048
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.014 J	< 0.004	< 0.004	0.01 J	< 0.005
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	0.016 J	< 0.004	< 0.004	0.012 J	< 0.005
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	< 0.004	0.013 J	< 0.004	< 0.004	0.036	< 0.004	0.004 J	0.021 J	< 0.005
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.015 J	< 0.004	< 0.004	0.009 J	< 0.005
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.012 J	< 0.004	< 0.004	0.008 J	< 0.005
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
Caprolactam	105-60-2	--	--	--	--	--	< 0.038	< 0.039	< 0.042	< 0.04	< 0.039	< 0.042	< 0.04	< 0.039	< 0.043	< 0.048
Carbazole	86-74-8	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
Chrysene	218-01-9	1	--	1	1	3.9	< 0.004	< 0.004	0.009 J	< 0.004	< 0.004	0.024	< 0.004	< 0.004	0.016 J	< 0.005
Di-n-butylphthalate	84-74-2	8.1	0.01	--	100	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
Di-n-octylphthalate	117-84-0	120	--	--	100	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.005
Dibenzofuran	132-64-9	6.20	--	7	14	59	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
Diethylphthalate	84-66-2	7.1	100	--	100	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
Dimethyl phthalate	131-11-3	27	200	--	100	--	< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	60	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
Fluoranthene	206-44-0	1000	--	100	100	100	< 0.004	< 0.004	0.013 J	< 0.004	0.004 J	0.038	0.005 J	0.005 J	0.025	< 0.005
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005
Hexachlorobenzene	118-74-1	1.4	--	0.33	0.33	1.2	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005
Hexachlorobutadiene	87-68-3	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
Hexachlorocyclopentadiene	77-47-4	--	10	--	--	--	< 0.19	< 0.19	< 0.21	< 0.2	< 0.19	< 0.21	< 0.2	< 0.2	< 0.21	< 0.24
Hexachloroethane	67-72-1	--	--	--	--	--	< 0.038	< 0.039	< 0.042	< 0.04	< 0.039	< 0.042	< 0.04	< 0.039	< 0.043	< 0.048
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.013 J	< 0.004	< 0.004	0.012 J	< 0.005
Isophorone	78-59-1	4.4	--	--	100	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	20	--	--	--	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.02

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB64 5/31/2017 OU1EESB64-S-1.00- 1-2 REG	OU1EESB64 5/31/2017 OU1EESB64-SD-0.50- 0.5-1 FD	OU1EESB65 5/31/2017 OU1EESB65-S-0.17- 0.17-0.5 REG	OU1EESB65 5/31/2017 OU1EESB65-S-0.50- 0.5-1 REG	OU1EESB65 5/31/2017 OU1EESB65-S-1.00- 1-2 REG	OU1EESB66 5/31/2017 OU1EESB66-S-0.17- 0.17-0.5 REG	OU1EESB66 5/31/2017 OU1EESB66-S-0.50- 0.5-1 REG	OU1EESB66 5/31/2017 OU1EESB66-S-1.00- 1-2 REG	OU1EESB67 6/1/2017 OU1EESB67-S-0.17- 0.17-0.5 REG	OU1EESB67 6/1/2017 OU1EESB67-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	18,700	19,500	18,600	19,500	18,600	20,800	19,600	18,500	20,500	19,900
Antimony	7440-36-0	--	12	--	--	--	0.147 J	0.216 J	0.286 J	0.117 J	0.155 J	0.574	0.122 J	0.19 J	0.161 J	0.158 J
Arsenic	7440-38-2	16	13	13	16	16	6.85	7.14	6.25	6.45	6.88	8.31	5.37	6.02	6.41	5.77
Barium	7440-39-3	820	433	350	350	400	50	54	63.6	65.4	57.6	59.3	52.8	55.9	71.4	53.1
Beryllium	7440-41-7	47	10	7.2	14	72	0.709	0.743	0.906	0.798	0.655	0.9	0.925	0.721	0.952	0.695
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0538 J	0.0598 J	0.0811 J	0.0429 J	0.0567 J	0.079 J	0.0592 J	0.0744 J	0.106 J	0.0672 J
Calcium	7440-70-2	--	10000	--	--	--	149	224	316	305	224	410	319	269	410	246
Chromium	7440-47-3	--	--	30	36	180	20.9	20.3	26.3	19.9	20.4	18.8	17.9	18	18.7	21.5
Cobalt	7440-48-4	--	20	--	30	--	11.4	10.8	7	9.01	20.8	8	8.61	9.98	10.2	11.4
Copper	7440-50-8	1720	50	50	270	270	26.1	19.7	14.8	14.7	23.6	16.7	12.8	16.9	16.6	19.4
Iron	7439-89-6	--	--	--	2000	--	30,800	26,600	21,700	23,200	29,000	22,300	24,700	25,300	25,900	31,100
Lead	7439-92-1	450	63	63	400	400	13	11.4	18.2	10.9	12.3	30.5	11.3	12	25.3	12.6
Magnesium	7439-95-4	--	--	--	--	--	6,250	5,180	3,790	4,530	5,710	4,020	4,390	4,850	4,300	5,780
Manganese	7439-96-5	2000	1600	1600	2000	2000	643	531	450	446	681	646	604	573	987	576
Nickel	7440-02-0	130	30	30	140	310	24.4	21.1	19.5	21.1	24.6	18.5	18.6	21.6	19.5	24.3
Potassium	7440-09-7	--	--	--	--	--	1,850	1,780	1,270	1,380	1,890	1,370	1,190	1,080	1,120	1,190
Selenium	7782-49-2	4	3.9	3.9	36	180	0.25 J	0.346 J	0.432 J	0.332 J	0.237 J	0.709 J	0.3 J	0.237 J	0.548 J	0.330 J
Silver	7440-22-4	8.3	2	2	36	180	0.0207 J	0.0391 J	0.0862 J	0.0587 J	< 0.0195	0.13 J	0.0486 J	0.0414 J	0.0726 J	0.0317 J
Sodium	7440-23-5	--	--	--	--	--	37.3 J	38.6 J	40.1 J	45.6 J	39.9 J	38.5 J	38.2 J	32 J	45.7 J	38.8 J
Thallium	7440-28-0	--	5	--	--	--	0.102 J	0.143 J	0.153 J	0.157 J	0.114 J	0.189 J	0.127 J	0.165 J	0.186 J	0.117 J
Vanadium	7440-62-2	--	39	--	100	--	25.1	25.1	25.5	25.5	25.1	31.4	25.1	24.8	28.8	26.9
Zinc	7440-66-6	2480	109	109	2200	10000	69.7	68.3	65	64	65.9	73.8	64.3	68	76.7	73
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0304 J	0.0296 J	0.0845 J	0.0388 J	0.031 J	0.0311 J	0.0321 J	0.138	0.0660 J	0.0238 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB67 6/1/2017 OU1EESB67-S-1.00- 1-2 REG	OU1EESB68 5/26/2017 OU1EESB68-S-0.17- 0.17-0.5 REG	OU1EESB68 5/26/2017 OU1EESB68-S-0.50- 0.5-1 REG	OU1EESB68 5/26/2017 OU1EESB68-S-1.00- 1-2 REG	OU1EESB69 5/31/2017 OU1EESB69-S-0.17- 0.17-0.5 REG	OU1EESB69 5/31/2017 OU1EESB69-S-0.50- 0.5-1 REG	OU1EESB69 5/31/2017 OU1EESB69-S-1.00- 1-2 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.17- 0.17-0.5 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.50- 0.5-1 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-1.00- 1-2 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	0.009 J	0.004 J	0.004 J	< 0.005	< 0.004	< 0.004
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	0.11	0.064	0.05	0.071	0.028	0.034
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	< 0.0006	< 0.0005	< 0.0004	< 0.0006	< 0.0005	< 0.0005
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	< 0.0006	< 0.0005	< 0.0004	< 0.0006	< 0.0005	< 0.0005
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	< 0.024	< 0.021	< 0.017	< 0.023	< 0.019	< 0.019
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	0.002 J	< 0.001	0.002 J
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB67 6/1/2017 OU1EESB67-S-1.00- 1-2 REG	OU1EESB68 5/26/2017 OU1EESB68-S-0.17- 0.17-0.5 REG	OU1EESB68 5/26/2017 OU1EESB68-S-0.50- 0.5-1 REG	OU1EESB68 5/26/2017 OU1EESB68-S-1.00- 1-2 REG	OU1EESB69 5/31/2017 OU1EESB69-S-0.17- 0.17-0.5 REG	OU1EESB69 5/31/2017 OU1EESB69-S-0.50- 0.5-1 REG	OU1EESB69 5/31/2017 OU1EESB69-S-1.00- 1-2 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.17- 0.17-0.5 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.50- 0.5-1 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-1.00- 1-2 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.11	< 0.14	< 0.12	< 0.13	< 0.12	< 0.12	< 0.11	< 0.14	< 0.12	< 0.11
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.34	< 0.43	< 0.35	< 0.39	< 0.37	< 0.36	< 0.34	< 0.41	< 0.35	< 0.33
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.007
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.005	< 0.004	0.009 J	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.11	< 0.14	< 0.12	< 0.13	< 0.12	< 0.12	< 0.11	< 0.14	< 0.12	< 0.11
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.19	< 0.24	< 0.2	< 0.21	< 0.2	< 0.2	< 0.19	< 0.23	< 0.2	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.038	< 0.047	< 0.039	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.037
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.19	< 0.24	< 0.2	< 0.21	< 0.2	< 0.2	< 0.19	< 0.23	< 0.2	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.005	< 0.004	< 0.004	0.008 J	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.019	< 0.024	< 0.020	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.020	< 0.019
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	0.005 J	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.038	< 0.047	< 0.039	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.037
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.011 J	< 0.004	< 0.004	0.015 J	< 0.004	< 0.004	0.02 J	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.014 J	< 0.004	< 0.004	0.017 J	< 0.004	< 0.004	0.016 J	< 0.004	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.004	0.022 J	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.024	< 0.004	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.012 J	0.004 J	< 0.004	0.014 J	< 0.004	< 0.004	0.015 J	< 0.004	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.009 J	< 0.004	< 0.004	0.014 J	< 0.004	< 0.004	0.011 J	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Caprolactam	105-60-2	--	--	--	--	--	< 0.038	< 0.047	< 0.039	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.037
Carbazole	86-74-8	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
Chrysene	218-01-9	1	--	1	1	3.9	< 0.004	0.019 J	0.004 J	< 0.004	0.004 J	< 0.004	< 0.004	0.019 J	< 0.004	< 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01	--	100	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Di-n-octylphthalate	117-84-0	120	--	--	100	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004
Dibenzofuran	132-64-9	6.20	--	7	14	59	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
Diethylphthalate	84-66-2	7.1	100	--	100	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Dimethyl phthalate	131-11-3	27	200	--	100	--	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	60	--	--	--	< 0.019	< 0.024	< 0.020	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.020	< 0.019
Fluoranthene	206-44-0	1000	--	100	100	100	< 0.004	0.027	0.005 J	< 0.004	0.037	0.005 J	< 0.004	0.034	< 0.004	< 0.004
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004
Hexachlorobenzene	118-74-1	1.4	--	0.33	0.33	1.2	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
Hexachlorocyclopentadiene	77-47-4	--	10	--	--	--	< 0.19	< 0.24	< 0.2	< 0.21	< 0.21	< 0.2	< 0.19	< 0.23	< 0.2	< 0.19
Hexachloroethane	67-72-1	--	--	--	--	--	< 0.038	< 0.047	< 0.039	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.037
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	< 0.004	0.011 J	< 0.004	< 0.004	0.013 J	< 0.004	< 0.004	0.01 J	< 0.004	< 0.004
Isophorone	78-59-1	4.4	--	--	100	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	20	--	--	--	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019</

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EESB67 6/1/2017 OU1EESB67-S-1.00- 1-2 REG	OU1EESB68 5/26/2017 OU1EESB68-S-0.17- 0.17-0.5 REG	OU1EESB68 5/26/2017 OU1EESB68-S-0.50- 0.5-1 REG	OU1EESB68 5/26/2017 OU1EESB68-S-1.00- 1-2 REG	OU1EESB69 5/31/2017 OU1EESB69-S-0.17- 0.17-0.5 REG	OU1EESB69 5/31/2017 OU1EESB69-S-0.50- 0.5-1 REG	OU1EESB69 5/31/2017 OU1EESB69-S-1.00- 1-2 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.17- 0.17-0.5 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.50- 0.5-1 REG	OU1EFSB01 6/5/2017 OU1EFSB01-S-1.00- 1-2 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	--	< 0.0051	< 0.0043	< 0.0046	--	--	--	< 0.0049	< 0.0042	< 0.004
Aroclor 1221	11104-28-2	--	--	--	--	--	--	< 0.0065	< 0.0055	< 0.0059	--	--	--	< 0.0063	< 0.0054	< 0.0051
Aroclor 1232	11141-16-5	--	--	--	--	--	--	< 0.011	< 0.0095	< 0.01	--	--	--	< 0.011	< 0.0094	< 0.0089
Aroclor 1242	53469-21-9	--	--	--	--	--	--	< 0.0046	< 0.0039	< 0.0042	--	--	--	< 0.0045	< 0.0039	< 0.0037
Aroclor 1248	12672-29-6	--	--	--	--	--	--	< 0.0046	< 0.0039	< 0.0042	--	--	--	< 0.0045	< 0.0039	< 0.0037
Aroclor 1254	11097-69-1	--	--	--	--	--	--	< 0.0046	< 0.0039	< 0.0042	--	--	--	< 0.0045	< 0.0039	< 0.0037
Aroclor 1260	11096-82-5	--	--	--	--	--	--	< 0.0069	< 0.0058	< 0.0063	--	--	--	< 0.0067	< 0.0057	< 0.0055
Aroclor 1262	37324-23-5	--	--	--	--	--	--	< 0.0046	< 0.0039	< 0.0042	--	--	--	< 0.0045	< 0.0039	< 0.0037
Aroclor 1268	11100-14-4	--	--	--	--	--	--	< 0.0046	< 0.0039	< 0.0042	--	--	--	< 0.0045	< 0.0039	< 0.0037
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	0.00076 J	< 0.00039	< 0.00042	--	--	--	< 0.00049	< 0.00038	< 0.00037
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	0.0019 J	0.00077 J	0.00066 J	--	--	--	0.00082 JP	< 0.00038	< 0.00037
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	0.0016 J	< 0.00042	< 0.00045	--	--	--	0.0012 J	< 0.00041	< 0.00039
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	< 0.00024	< 0.0002	< 0.00022	--	--	--	< 0.00023	< 0.0002	< 0.00019
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	< 0.00024	< 0.0002	< 0.00022	--	--	--	0.00064 JP	< 0.0002	< 0.00019
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	< 0.00024	< 0.0002	< 0.00022	--	--	--	0.0041	0.0089	0.008
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	< 0.00042	< 0.00036	< 0.00039	--	--	--	< 0.00041	< 0.00035	< 0.00034
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	< 0.00063	< 0.00054	< 0.00058	--	--	--	< 0.00061	< 0.00052	< 0.0005
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	< 0.00046	< 0.00039	< 0.00042	--	--	--	< 0.00045	< 0.00038	< 0.00037
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	< 0.00031	< 0.00026	< 0.00028	--	--	--	< 0.0003	< 0.00026	< 0.00025
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	< 0.00046	< 0.00039	< 0.00042	--	--	--	< 0.00045	< 0.00038	< 0.00037
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	< 0.00046	< 0.00039	< 0.00042	--	--	--	< 0.00045	< 0.00038	< 0.00037
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	< 0.00046	< 0.00039	< 0.00042	--	--	--	< 0.00045	< 0.00038	< 0.00037
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	< 0.00046	< 0.00039	< 0.00042	--	--	--	< 0.00045	< 0.00038	< 0.00037
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	< 0.00085	< 0.00072	< 0.00077	--	--	--	< 0.00082	< 0.00067	< 0.00067
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	< 0.00024	< 0.0002	< 0.00022	--	--	--	0.00039 JP	< 0.0002	< 0.00019
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	< 0.00024	< 0.0002	< 0.00022	--	--	--	0.0003 JP	< 0.00029 V	< 0.00019
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	< 0.00024	< 0.0002	< 0.00022	--	--	--	< 0.00027 V	< 0.0002	< 0.00019
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	< 0.00024	< 0.0002	< 0.00022	--	--	--	< 0.00023	< 0.0002	< 0.00019
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	< 0.0024	< 0.002	< 0.0022	--	--	--	< 0.0023	< 0.002	< 0.0019
TOXAPHENE	8001-35-2	--	--	--	--	--	--	< 0.02	< 0.017	< 0.018	--	--	--	< 0.019	< 0.016	< 0.016
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	16,600	22,400	21,300	22,400	17,200	18,100	17,400	12,700	15,100	13,500
Antimony	7440-36-0	--	12	--	--	--	< 0.0951	0.279 J	0.231 J	0.313 J	0.33 J	0.149 J	0.123 J	< 0.131	< 0.112	0.105 J
Arsenic	7440-38-2	16	13	13	16	16	6.07	7.18	6.56	7.5	6.53	5.86	6.19	6.1	9.46	7.91
Barium	7440-39-3	820	433	350	350	400	51.3	96.2	85.5	83.3	76.6	71.8	65.4	63.8	79.7	57.1
Beryllium	7440-41-7	47	10	7.2	14	72	0.66	0.967	0.839	0.853	0.82	0.855	0.714	0.538	0.682	0.62
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0624 J	0.111 J	0.0733 J	0.0693 J	0.14 J	0.105 J	0.0859 J	0.120 J	0.204 J	0.0920 J
Calcium	7440-70-2	--	10000	--	--	--	167	767	565	712	895	450	399	1,530	1,070	1,150
Chromium	7440-47-3	--	--	30	36	180	17.8	22.9	24	24.8	17.6	19.3	19.3	14.1	15.5	14.1
Cobalt	7440-48-4	--	20	--	30	--	13.5	12.3	12.9	15.7	8.91	11	10.2	8.81	14.7	10.7
Copper	7440-50-8	1720	50	50	270	270	26.8	19.4	20.5	27.7	16.6	17.5	20.5	17.1	20.8	19
Iron	7439-89-6	--	--	--	2000	--	29,300	28,100	31,200	37,500	21,800	25,100	25,300	20,000	26,800	25,400
Lead	7439-92-1	450	63	63	400	400	12.1	21.3	16.1	15.5	44.9	16.9	12	14.8	13.7	10.4
Magnesium	7439-95-4	--	--	--	--	--	5,360	6,050	6,500	7,400	4,470	5,140	5,600	3,690	4,760	4,720
Manganese	7439-96-5	2000	1600	1600	2000	2000	689	1,010	768	691	761	670	560	577	1,160	694
Nickel	7440-02-0	130	30	30	140	310	23.7	26.4	27.9	33.1	18.9	21	21.7	18.9	22.5	21.2
Potassium	7440-09-7	--	--	--	--	--	1,450	2,050	2,160	2,690	1,600	1,800	2,210	1,220	1,540	1,310
Selenium	7782-49-2	4	3.9	3.9	36	180	0.156 J	0.475 J	0.336 J	0.233 J	0.477 J	0.314 J	0.272 J	0.253 J	0.132 J	0.0980 J
Silver	7440-22-4	8.3	2	2	36	180	< 0.0229	0.0455 J	< 0.0245	< 0.0278	0.115 J	0.0523 J	0.028 J	0.0461 J	< 0.0270	< 0.0203
Sodium	7440-23-5	--	--	--	--	--	44.9 J	48.9 J	44.9 J	59.0 J	38.4 J	41 J	42.4 J	49.4 J	50.8 J	46.0 J
Thallium	7440-28-0	--	5	--	--	--	0.120 J	0.183 J	0.170 J	0.137 J	0.149 J	0.148 J	0.129 J	0.0958 J	0.131 J	0.0756 J
Vanadium	7440-62-2	--	39	--	100	--	21.8	31.3	29	32.3	26.7	25.9	24.8	20.7	21.9	18.7
Zinc	7440-66-6	2480	109	109	2200	10000	68.2	92.1	79.8	78.8	84.4	75.6	66	59.6	62.2	58.9
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0223 J	0.0683 J	0.0342 J	0.0490 J	0.0305 J	0.0372 J	0.0756 J	0.111 J	0.0385 J	0.0271 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB02 6/2/2017 OU1EFSB02-S-0.17- 0.17-0.5 REG	OU1EFSB02 6/2/2017 OU1EFSB02-S-0.50- 0.5-1 REG	OU1EFSB02 6/2/2017 OU1EFSB02-S-1.00- 1-2 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-0.17- 0.17-0.5 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-0.50- 0.5-1 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-1.00- 1-2 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-0.17- 0.17-0.5 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-0.50- 0.5-1 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-1.00- 1-2 REG	OU1EFSB05 6/2/2017 OU1EFSB05-S-0.17- 0.17-0.5 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.014	0.006 J	0.006 J	< 0.005	< 0.004	< 0.004	0.006 J	0.007 J	< 0.003	0.006 J
2-Hexanone	591-78-6	--	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.004	< 0.003	< 0.003	< 0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.15	0.085	0.083	0.066	0.024	0.021	0.22	0.3	0.028	0.07
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0006	< 0.0005	< 0.0005	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004	< 0.0005
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.001	0.001 J	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0006	< 0.0005	< 0.0005	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004	< 0.0005
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001.			

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB02 6/2/2017 OU1EFSB02-S-0.17- 0.17-0.5 REG	OU1EFSB02 6/2/2017 OU1EFSB02-S-0.50- 0.5-1 REG	OU1EFSB02 6/2/2017 OU1EFSB02-S-1.00- 1-2 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-0.17- 0.17-0.5 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-0.50- 0.5-1 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-1.00- 1-2 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-0.17- 0.17-0.5 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-0.50- 0.5-1 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-1.00- 1-2 REG	OU1EFSB05 6/2/2017 OU1EFSB05-S-0.17- 0.17-0.5 REG	
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077	< 0.077
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.37	< 0.33	< 0.35	< 0.41	< 0.33	< 0.33	< 0.37	< 0.34	< 0.34	< 0.34	< 0.35
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.076	< 0.077
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	< 0.007	< 0.008	< 0.009	< 0.007	< 0.007	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	0.009 J	< 0.004	0.051	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.076	< 0.077
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.19	< 0.2	< 0.23	< 0.18	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.041	< 0.037	< 0.039	< 0.045	< 0.037	< 0.037	< 0.041	< 0.038	< 0.038	< 0.038	< 0.038
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.019
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.076	< 0.077
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.19	< 0.2	< 0.23	< 0.18	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	0.02 J	< 0.004	0.02	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.020	< 0.019	< 0.019	< 0.019	< 0.019
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	0.011 J	< 0.004	0.01 J	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.045	< 0.037	< 0.037	< 0.041	< 0.038	< 0.038	< 0.038	< 0.038
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.076	< 0.077
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.008 J	0.005 J	0.007 J	< 0.005	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.011 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.01 J	0.004 J	0.009 J	< 0.005	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004	0.011 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.016 J	0.007 J	0.013 J	0.008 J	< 0.004	< 0.004	0.008 J	< 0.004	0.005 J	0.014 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.01 J	< 0.004	0.007 J	0.005 J	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004	0.008 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.009 J	< 0.004	0.007 J	0.005 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.02	< 0.019	< 0.02	< 0.023	<						

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB02 6/2/2017 OU1EFSB02-S-0.17- 0.17-0.5 REG	OU1EFSB02 6/2/2017 OU1EFSB02-S-0.50- 0.5-1 REG	OU1EFSB02 6/2/2017 OU1EFSB02-S-1.00- 1-2 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-0.17- 0.17-0.5 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-0.50- 0.5-1 REG	OU1EFSB03 6/2/2017 OU1EFSB03-S-1.00- 1-2 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-0.17- 0.17-0.5 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-0.50- 0.5-1 REG	OU1EFSB04 6/5/2017 OU1EFSB04-S-1.00- 1-2 REG	OU1EFSB05 6/2/2017 OU1EFSB05-S-0.17- 0.17-0.5 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	< 0.0045	< 0.004	< 0.0042	< 0.005	< 0.004	< 0.004	< 0.0044	< 0.0041	< 0.0041	< 0.0042
Aroclor 1221	11104-28-2	--	--	--	--	--	< 0.0057	< 0.0051	< 0.0054	< 0.0064	< 0.0051	< 0.0051	< 0.0057	< 0.0052	< 0.0053	< 0.0053
Aroclor 1232	11141-16-5	--	--	--	--	--	< 0.0099	< 0.009	< 0.0094	< 0.011	< 0.0088	< 0.0088	< 0.0099	< 0.0091	< 0.0092	< 0.0093
Aroclor 1242	53469-21-9	--	--	--	--	--	< 0.0041	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Aroclor 1248	12672-29-6	--	--	--	--	--	< 0.0041	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Aroclor 1254	11097-69-1	--	--	--	--	--	0.029	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Aroclor 1260	11096-82-5	--	--	--	--	--	< 0.0061	< 0.0055	< 0.0058	< 0.0068	< 0.0054	< 0.0054	< 0.006	< 0.0056	< 0.0056	< 0.0057
Aroclor 1262	37324-23-5	--	--	--	--	--	< 0.0041	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Aroclor 1268	11100-14-4	--	--	--	--	--	< 0.0041	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	< 0.00041	< 0.00037	0.00065 JP	0.00066 J	< 0.00037	< 0.00036	< 0.00041	< 0.00038	< 0.00038	0.00061 J
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	0.00043 J	< 0.00037	0.0015 J	0.00094 J	< 0.00037	< 0.00036	< 0.00041	< 0.00038	< 0.00038	0.00087 J
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	< 0.00044	< 0.0004	< 0.00041	< 0.00048	< 0.00039	< 0.00039	< 0.00043	< 0.0004	< 0.0004	< 0.0004
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	< 0.00021	< 0.00019	< 0.0002	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00019	< 0.0002	< 0.0002
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	< 0.00021	< 0.00019	< 0.0002	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00019	< 0.0002	< 0.0002
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	< 0.00021	< 0.00019	< 0.0002	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00019	< 0.0002	< 0.0002
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	< 0.00037	< 0.00034	< 0.00035	< 0.00041	< 0.00034	< 0.00033	< 0.00037	< 0.00034	< 0.00034	< 0.00034
delta BHC	319-86-8	0.25	0.04	0.04	100	100	< 0.00056	< 0.00051	< 0.00053	< 0.00061	< 0.0005	< 0.0005	< 0.00055	< 0.00051	< 0.00052	< 0.00052
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	0.00056 JP	< 0.00037	< 0.00039	< 0.00045	< 0.00037	< 0.00036	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Endosulfan I	959-98-8	102	--	2.4	4.8	24	< 0.00027	< 0.00025	< 0.00026	< 0.0003	< 0.00025	< 0.00024	< 0.00027	< 0.00025	< 0.00025	< 0.00025
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	< 0.00041	< 0.00037	< 0.00039	< 0.00045	< 0.00037	< 0.00036	< 0.00041	< 0.00038	< 0.00038	< 0.00038
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	< 0.00041	< 0.00037	< 0.00039	< 0.00045	< 0.00037	< 0.00036	< 0.00041	< 0.00038	< 0.00038	< 0.00038
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	< 0.00041	< 0.00037	< 0.00039	< 0.00045	< 0.00037	< 0.00036	< 0.00041	< 0.00038	< 0.00038	< 0.00038
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	< 0.00041	< 0.00037	< 0.00039	< 0.00045	< 0.00037	< 0.00036	< 0.00041	< 0.00038	< 0.00038	< 0.00038
ENDRIN KETONE	53494-70-5	--	--	--	--	--	< 0.00075	< 0.00068	< 0.00071	< 0.00082	< 0.00067	< 0.00066	< 0.00074	< 0.00069	< 0.00069	< 0.00069
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	< 0.00021	< 0.00019	< 0.0002	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00019	< 0.0002	< 0.0002
gamma Chlordane	5103-74-2	14	--	--	0.54	--	< 0.00021	< 0.00019	< 0.0002	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00019	< 0.0002	< 0.0002
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	< 0.00021	< 0.00019	< 0.0002	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00019	< 0.0002	< 0.0002
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	0.00038 JP	< 0.00019	< 0.0002	< 0.00023	< 0.00019	< 0.00019	< 0.00021	< 0.00019	< 0.0002	< 0.0002
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	< 0.0021	< 0.0019	< 0.002	< 0.0023	< 0.0019	< 0.0019	< 0.0021	< 0.0019	< 0.002	< 0.002
TOXAPHENE	8001-35-2	--	--	--	--	--	< 0.017	< 0.016	< 0.016	< 0.019	< 0.016	< 0.015	< 0.017	< 0.016	< 0.016	< 0.016
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	17,400	14,200	14,800	12,400	15,100	14,000	16,600	16,400	16,300	15,600
Antimony	7440-36-0	--	12	--	--	--	0.19 J	0.131 J	0.14 J	< 0.109	0.111 J	0.121 J	< 0.107	0.144 J	0.212 J	0.16 J
Arsenic	7440-38-2	16	13	13	16	16	6.66	6.6	7.64	6.13	8.24	6.86	5.91	6.58	6.72	10.2
Barium	7440-39-3	820	433	350	350	400	80.6	59.4	62.3	53.1	79.2	52.1	76.5	73.6	71.9	53.4
Beryllium	7440-41-7	47	10	7.2	14	72	0.836	0.748	0.811	0.785	0.743	0.776	0.785	0.738	0.745	0.686
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.163 J	0.132 J	0.155 J	0.0807 J	0.142 J	0.0692 J	0.112 J	0.116 J	0.129 J	0.159 J
Calcium	7440-70-2	--	10000	--	--	--	1,760	1,100	1,370	1,550	1,350	1,620	880	733	744	731
Chromium	7440-47-3	--	--	30	36	180	18.3	14.7	14.6	12.4	16.1	15.1	15.8	16.1	17.8	16.4
Cobalt	7440-48-4	--	20	--	30	--	10	9.63	9.34	7.53	10.7	8.42	9.71	10.5	9.93	10.2
Copper	7440-50-8	1720	50	50	270	270	36.6	20.1	18.1	13.3	24.6	20.1	13.5	14.6	16.1	24.4
Iron	7439-89-6	--	--	--	2000	--	24,400	24,600	25,700	21,900	28,000	26,400	20,500	21,400	23,500	25,900
Lead	7439-92-1	450	63	63	400	400	50.1	16.8	20.1	10.1	11	8.62	11	14.1	14.3	21.2
Magnesium	7439-95-4	--	--	--	--	--	5,000	4,600	4,460	3,830	5,280	5,000	4,080	4,010	4,310	5,010
Manganese	7439-96-5	2000	1600	1600	2000	2000	904	857	862	462	631	461	915	809	686	602
Nickel	7440-02-0	130	30	30	140	310	20.4	19	19.4	14.6	22.8	18.2	16.9	17.6	27.4	21.1
Potassium	7440-09-7	--	--	--	--	--	1,710	1,400	1,190	1,060	1,670	1,540	1,540	1,590	1,560	1,430
Selenium	7782-49-2	4	3.9	3.9	36	180	0.383 J	0.209 J	0.283 J	0.189 J	0.112 J	0.107 J	0.258 J	0.272 J	0.233 J	0.189 J
Silver	7440-22-4	8.3	2	2	36	180	0.302	0.0772 J	0.0726 J	0.0351 J	< 0.0252	< 0.0221	0.0614 J	0.0666 J	0.0554 J	0.0306 J
Sodium	7440-23-5	--	--	--	--	--	53.1 J	46 J	48 J	45.3 J	65.9 J	67.8 J	53.8 J	54.1 J	53.8 J	35.1 J
Thallium	7440-28-0	--	5	--	--	--	0.172 J	0.125 J	0.12 J	0.0731 J	0.0913 J	0.0735 J	0.128 J	0.146 J	0.149 J	0.0953 J
Vanadium	7440-62-2	--	39	--	100	--	26.8	21.2	21.4	19.2	21	20.4	23.8	24.5	24.9	21.6
Zinc	7440-66-6	2480	109	109	2200	10000	83.2	69.6	70.7	53.7	72.1	61.5	67.9	66.7	71.5	70.1
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.886	0.115	0.113 J	0.0581 J	0.0311 J	0.0297 J	0.0437 J	0.0391 J	0.0478 J	0.143

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB05 6/2/2017 OU1EFSB05-S-0.50- 0.5-1 REG	OU1EFSB05 6/2/2017 OU1EFSB05-S-1.00- 1-2 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-0.17- 0.17-0.5 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-0.50- 0.5-1 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-1.00- 1-2 REG	OU1EFSB06 6/2/2017 OU1EFSB06-SD-0.50- 0.5-1 FD	OU1EFSB07 6/2/2017 OU1EFSB07-S-0.17- 0.17-0.5 REG	OU1EFSB07 6/2/2017 OU1EFSB07-S-0.50- 0.5-1 REG	OU1EFSB07 6/2/2017 OU1EFSB07-S-1.00- 1-2 REG	OU1EFSB08 6/2/2017 OU1EFSB08-S-0.17- 0.17-0.5 REG
Volatile Organic Compounds																
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	0.006 J	0.004 J	0.019	0.007 J	0.007 J	0.006 J	< 0.24	< 0.22	0.006 J	0.005 J
2-Hexanone	591-78-6	--	--	--	--	--	< 0.003	< 0.003	< 0.004	< 0.004	< 0.004	< 0.003	< 0.18	< 0.17	< 0.003	< 0.003
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.003	< 0.003	< 0.004	< 0.004	< 0.004	< 0.003	< 0.18	< 0.17	< 0.003	< 0.003
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.081	0.066	0.21	0.1	0.098	0.088	< 0.41	< 0.39	0.076	0.058
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0005	< 0.0005	< 0.0007	< 0.0006	< 0.0006	< 0.0006	< 0.029	< 0.028	< 0.0005	< 0.0006
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	0.42	< 0.001	< 0.001
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	3.9	8	< 0.002	< 0.002
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0005	< 0.0005	< 0.0007	< 0.0006	< 0.0006	< 0.0006	< 0.029	< 0.028	< 0.0005	< 0.0006
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001									

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB05 6/2/2017 OU1EFSB05-S-0.50- 0.5-1 REG	OU1EFSB05 6/2/2017 OU1EFSB05-S-1.00- 1-2 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-0.17- 0.17-0.5 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-0.50- 0.5-1 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-1.00- 1-2 REG	OU1EFSB06 6/2/2017 OU1EFSB06-SD-0.50- 0.5-1 FD	OU1EFSB07 6/2/2017 OU1EFSB07-S-0.17- 0.17-0.5 REG	OU1EFSB07 6/2/2017 OU1EFSB07-S-0.50- 0.5-1 REG	OU1EFSB07 6/2/2017 OU1EFSB07-S-1.00- 1-2 REG	OU1EFSB08 6/2/2017 OU1EFSB08-S-0.17- 0.17-0.5 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.12	< 0.14	< 0.13	< 0.12	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.39	< 0.36	< 0.43	< 0.4	< 0.36	< 0.37	< 0.38	< 0.39	< 0.37	< 0.4
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.008	< 0.01	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.009
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.12	< 0.14	< 0.13	< 0.12	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.22	< 0.2	< 0.24	< 0.22	< 0.2	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.043	< 0.04	< 0.048	< 0.044	< 0.04	< 0.041	< 0.042	< 0.044	< 0.041	< 0.044
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.22	< 0.2	< 0.24	< 0.22	< 0.2	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	0.01 J	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	0.012 J	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.043	< 0.04	< 0.048	< 0.044	< 0.04	< 0.041	< 0.042	< 0.044	< 0.041	< 0.044
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.009 J	< 0.004	0.042	0.006 J	0.006 J	0.006 J	0.019 J	0.005 J	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.01 J	< 0.004	0.038	0.006 J	0.008 J	0.007 J	0.017 J	0.005 J	< 0.004	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.013 J	0.005 J	0.056	0.009 J	0.011 J	0.009 J	0.029	0.008 J	< 0.004	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.024	< 0.004	0.028	0.005 J	0.006 J	0.005 J	0.013 J	< 0.004	< 0.004	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.009 J	< 0.004	0.026	< 0.004	0.005 J	0.004 J	0.013 J	< 0.004	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
bis(2-Ethylhexyl)phthalate	1>															

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB05 6/2/2017 OU1EFSB05-S-0.50- 0.5-1 REG	OU1EFSB05 6/2/2017 OU1EFSB05-S-1.00- 1-2 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-0.17- 0.17-0.5 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-0.50- 0.5-1 REG	OU1EFSB06 6/2/2017 OU1EFSB06-S-1.00- 1-2 REG	OU1EFSB06 6/2/2017 OU1EFSB06-SD-0.50- 0.5-1 FD	OU1EFSB07 6/2/2017 OU1EFSB07-S-0.17- 0.17-0.5 REG	OU1EFSB07 6/2/2017 OU1EFSB07-S-0.50- 0.5-1 REG	OU1EFSB07 6/2/2017 OU1EFSB07-S-1.00- 1-2 REG	OU1EFSB08 6/2/2017 OU1EFSB08-S-0.17- 0.17-0.5 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	< 0.0046	< 0.0043	< 0.0051	< 0.0047	< 0.0043	< 0.0045	< 0.0046	< 0.0047	< 0.0044	< 0.0048
Aroclor 1221	11104-28-2	--	--	--	--	--	< 0.0059	< 0.0055	< 0.0066	< 0.0061	< 0.0055	< 0.0057	< 0.0058	< 0.006	< 0.0057	< 0.0061
Aroclor 1232	11141-16-5	--	--	--	--	--	< 0.01	< 0.0096	< 0.011	< 0.011	< 0.0097	< 0.01	< 0.01	< 0.01	< 0.0099	< 0.011
Aroclor 1242	53469-21-9	--	--	--	--	--	< 0.0042	< 0.0039	< 0.0047	< 0.0043	< 0.004	< 0.0041	< 0.0042	< 0.0043	< 0.0041	< 0.0044
Aroclor 1248	12672-29-6	--	--	--	--	--	< 0.0042	< 0.0039	< 0.0047	< 0.0043	< 0.004	< 0.0041	< 0.0042	< 0.0043	< 0.0041	< 0.0044
Aroclor 1254	11097-69-1	--	--	--	--	--	< 0.0042	< 0.0039	< 0.0047	< 0.0043	< 0.004	< 0.0041	< 0.0042	< 0.0043	< 0.0041	< 0.0044
Aroclor 1260	11096-82-5	--	--	--	--	--	< 0.0063	< 0.0059	< 0.007	< 0.0065	< 0.0059	< 0.0061	< 0.0062	< 0.0064	< 0.0061	< 0.0065
Aroclor 1262	37324-23-5	--	--	--	--	--	< 0.0042	< 0.0039	< 0.0047	< 0.0043	< 0.004	< 0.0041	< 0.0042	< 0.0043	< 0.0041	< 0.0044
Aroclor 1268	11100-14-4	--	--	--	--	--	< 0.0042	< 0.0039	< 0.0047	< 0.0043	< 0.004	< 0.0041	< 0.0042	< 0.0043	< 0.0041	< 0.0044
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	< 0.00042	< 0.00039	< 0.00047	0.00063 J	< 0.0004	< 0.00041	0.0014 J	0.0011 J	< 0.00041	< 0.00044
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	0.0012 J	0.00077 J	0.0011 J	0.00098 J	0.0022	0.00065 J	< 0.00042	< 0.00044	< 0.00041	0.00072 J
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	< 0.00045	< 0.00042	< 0.0005	< 0.00046	0.00064 JP	< 0.00044	0.00086 JP	0.0006 JP	< 0.00043	< 0.00047
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	< 0.00022	< 0.0002	< 0.00024	< 0.00022	< 0.00021	< 0.00021	< 0.00022	< 0.00022	< 0.00021	< 0.00023
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	< 0.00022	< 0.0002	< 0.00024	< 0.00022	< 0.00021	< 0.00021	< 0.00022	< 0.00022	< 0.00021	< 0.00023
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	< 0.00022	< 0.0002	< 0.00024	< 0.00022	< 0.00021	< 0.00021	0.022	0.035	0.0012	< 0.00023
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	< 0.00039	< 0.00036	< 0.00043	< 0.00039	< 0.00037	< 0.00038	< 0.00038	< 0.0004	< 0.00037	< 0.0004
delta BHC	319-86-8	0.25	0.04	0.04	100	100	< 0.00058	< 0.00054	< 0.00064	< 0.00059	< 0.00055	< 0.00056	< 0.00057	< 0.00059	< 0.00055	< 0.0006
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	< 0.00042	< 0.00039	< 0.00043	< 0.00043	< 0.0004	< 0.00041	< 0.00042	< 0.00044	< 0.00041	< 0.00044
Endosulfan I	959-98-8	102	--	2.4	4.8	24	< 0.00028	< 0.00026	< 0.00031	< 0.00029	< 0.00027	< 0.00028	< 0.00028	< 0.00029	< 0.00027	< 0.00029
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	< 0.00042	< 0.00039	< 0.00047	< 0.00043	< 0.0004	< 0.00041	< 0.00042	< 0.00044	< 0.00041	< 0.00044
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	< 0.00042	< 0.00039	< 0.00047	< 0.00043	< 0.0004	< 0.00041	< 0.00042	< 0.00044	< 0.00041	< 0.00044
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	< 0.00042	< 0.00039	< 0.00047	< 0.00043	< 0.0004	< 0.00041	< 0.00042	< 0.00044	< 0.00041	< 0.00044
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	< 0.00042	< 0.00039	< 0.00047	< 0.00043	< 0.0004	< 0.00041	0.0015 J	< 0.00044	< 0.00041	< 0.00044
ENDRIN KETONE	53494-70-5	--	--	--	--	--	< 0.00077	< 0.00072	< 0.00085	< 0.00078	< 0.00073	< 0.00075	< 0.00076	< 0.00079	< 0.00074	< 0.0008
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	< 0.00022	< 0.0002	< 0.00024	< 0.00022	< 0.00021	< 0.00021	< 0.00022	< 0.00022	< 0.00021	< 0.00023
gamma Chlordane	5103-74-2	14	--	--	0.54	--	< 0.00022	< 0.0002	< 0.00024	< 0.00022	< 0.00021	< 0.00021	0.0014 JP	< 0.00057 V	< 0.00021	< 0.00023
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	< 0.00022	< 0.0002	< 0.00024	< 0.00022	< 0.00021	< 0.00021	< 0.00022	< 0.00022	< 0.00021	< 0.00023
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	< 0.00022	< 0.0002	< 0.00024	< 0.00022	< 0.00021	< 0.00021	< 0.00022	< 0.00022	< 0.00021	< 0.00023
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	< 0.0022	< 0.002	< 0.0024	< 0.0022	< 0.0021	< 0.0021	< 0.0022	< 0.0022	< 0.0021	< 0.0023
TOXAPHENE	8001-35-2	--	--	--	--	--	< 0.018	< 0.017	< 0.02	< 0.018	< 0.017	< 0.018	< 0.018	< 0.018	< 0.017	< 0.019
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	18,100	16,200	18,400	16,000	18,700	17,200	16,800	17,200	18,200	13,300
Antimony	7440-36-0	--	12	--	--	--	0.144 J	0.138 J	0.173 J	0.137 J	0.12 J	0.0982 J	0.245 J	< 0.105	0.177 J	0.236 J
Arsenic	7440-38-2	16	13	13	16	16	9.53	8.79	7.59	6.48	7.25	7.13	6.71	6.99	9.34	13.7
Barium	7440-39-3	820	433	350	350	400	54.5	46.4	58.8	56.9	71	65.3	57.1	52.4	63.8	56.8
Beryllium	7440-41-7	47	10	7.2	14	72	0.819	0.724	0.83	0.683	0.808	0.741	0.777	0.767	0.817	0.652
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.202 J	0.117 J	0.136 J	0.0693 J	0.0963 J	0.0983 J	0.117 J	0.0882 J	0.091 J	0.158 J
Calcium	7440-70-2	--	10000	--	--	--	664	587	643	515	425	470	488	206	282	14,700
Chromium	7440-47-3	--	--	30	36	180	19.7	18.3	21	17.3	19.3	18.4	15.6	17.6	18.7	14.9
Cobalt	7440-48-4	--	20	--	30	--	11.5	11.1	11.9	10.2	11.2	12.1	9.13	11.3	11.5	15.5
Copper	7440-50-8	1720	50	50	270	270	25.9	28.7	26.8	19.8	19.7	21.7	16.3	18	25	44.3
Iron	7439-89-6	--	--	--	2000	--	30,300	29,700	32,100	24,300	25,500	26,900	21,800	28,600	30,600	27,800
Lead	7439-92-1	450	63	63	400	400	24.8	16.1	17.1	13.3	16.9	16	21.4	13.5	12.4	22.8
Magnesium	7439-95-4	--	--	--	--	--	5,880	5,380	6,170	4,440	4,690	4,570	4,530	5,320	5,520	13,000
Manganese	7439-96-5	2000	1600	1600	2000	2000	649	617	781	635	579	886	745	712	668	1,150
Nickel	7440-02-0	130	30	30	140	310	24.8	24.7	26.4	20	22	21	19.5	22.8	24.6	23.8
Potassium	7440-09-7	--	--	--	--	--	1,750	1,430	1,650	1,240	1,500	1,390	975	1,260	2,150	1,990
Selenium	7782-49-2	4	3.9	3.9	36	180	0.186 J	0.133 J	0.218 J	0.235 J	0.323 J	0.233 J	0.488 J	0.223 J	0.121 J	0.142 J
Silver	7440-22-4	8.3	2	2	36	180	0.0339 J	< 0.0213	0.036 J	0.0505 J	0.0615 J	0.0469 J	0.123 J	0.0434 J	< 0.0281	0.0305 J
Sodium	7440-23-5	--	--	--	--	--	40.4 J	36.7 J	43.8 J	34.4 J	39.5 J	36.9 J	35.4 J	42.3 J	52.5 J	51.2 J
Thallium	7440-28-0	--	5	--	--	--	0.115 J	0.0888 J	0.109 J	0.107 J	0.145 J	0.115 J	0.159 J	0.107 J	0.103 J	0.096 J
Vanadium	7440-62-2	--	39	--	100	--	25.4	22.2	26.8	22.8	26.9	25	23.5	22.8	26.4	18.5
Zinc	7440-66-6	2480	109	109	2200	10000	74.7	66.7	80.7	61.2	74.6	63.4	68.3	74.3	75.1	76.5
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0993 J	0.0731 J	0.317	0.14	0.418	0.137	0.0915 J	0.041 J	0.0399 J	0.0373 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB08 6/2/2017 OU1EFSB08-S-0.50- 0.5-1 REG	OU1EFSB08 6/2/2017 OU1EFSB08-S-1.00- 1-2 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-0.17- 0.17-0.5 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-0.50- 0.5-1 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-1.00- 1-2 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-0.17- 0.17-0.5 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-0.50- 0.5-1 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-1.00- 1-2 REG	OU1EFSB11 6/5/2017 OU1EFSB11-S-0.17- 0.17-0.5 REG	OU1EFSB11 6/5/2017 OU1EFSB11-S-0.50- 0.5-1 REG
Volatile Organic Compounds																
1,1-Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.001	--	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.001	--	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.002	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.001	--	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.001	--	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.001	--	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	< 0.004	< 0.005	0.006 J	< 0.004	0.009 J	< 0.004	0.006 J	< 0.004	0.005 J	< 0.004
2-Hexanone	591-78-6	--	--	--	--	--	< 0.003	< 0.004	< 0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.003	< 0.004	< 0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.039	0.06	0.089	0.036	0.36	0.056	0.091	0.027	0.088	0.052
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	0.005 J	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0006	< 0.0004
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	< 0.022	< 0.024	< 0.024	< 0.019	0.086 J	< 0.022	< 0.018	< 0.02	< 0.022	< 0.018
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002 J	< 0.002 J	< 0.001	< 0.001	< 0.0009
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB08 6/2/2017 OU1EFSB08-S-0.50- 0.5-1 REG	OU1EFSB08 6/2/2017 OU1EFSB08-S-1.00- 1-2 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-0.17- 0.17-0.5 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-0.50- 0.5-1 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-1.00- 1-2 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-0.17- 0.17-0.5 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-0.50- 0.5-1 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-1.00- 1-2 REG	OU1EFSB11 6/5/2017 OU1EFSB11-S-0.17- 0.17-0.5 REG	OU1EFSB11 6/5/2017 OU1EFSB11-S-0.50- 0.5-1 REG
Semivolatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.11	< 0.11	< 0.12	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.39	< 0.35	< 0.39	< 0.35	< 0.37	< 0.38	< 0.33	< 0.33	< 0.35	< 0.35
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008	< 0.009	< 0.007	< 0.007	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	0.014 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.11	< 0.11	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.22	< 0.2	< 0.22	< 0.19	< 0.2	< 0.21	< 0.18	< 0.18	< 0.2	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.043	< 0.039	< 0.043	< 0.039	< 0.041	< 0.043	< 0.037	< 0.037	< 0.039	< 0.039
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.22	< 0.2	< 0.22	< 0.19	< 0.2	< 0.21	< 0.18	< 0.18	< 0.2	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.020	< 0.021	< 0.018	< 0.018	< 0.020	< 0.019
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	< 0.004	0.012 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	--	--	< 0.043	< 0.039	< 0.043	< 0.039	< 0.041	< 0.043	< 0.037	< 0.037	< 0.039	< 0.039
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.086	< 0.079	0.11 J	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
Benzo(a)anthracene	56-55-3	1	--	1	1	1	0.007 J	0.011 J	0.024	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.008 J	0.014 J	0.026	0.004 J	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.01 J	0.021	0.044	0.006 J	0.005 J	0.005 J	< 0.004	< 0.004	0.008 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.005 J	0.01 J	0.021 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.004 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.009 J	0.017 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB08 6/2/2017 OU1EFSB08-S-0.50- 0.5-1 REG	OU1EFSB08 6/2/2017 OU1EFSB08-S-1.00- 1-2 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-0.17- 0.17-0.5 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-0.50- 0.5-1 REG	OU1EFSB09 6/5/2017 OU1EFSB09-S-1.00- 1-2 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-0.17- 0.17-0.5 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-0.50- 0.5-1 REG	OU1EFSB10 6/5/2017 OU1EFSB10-S-1.00- 1-2 REG	OU1EFSB11 6/5/2017 OU1EFSB11-S-0.17- 0.17-0.5 REG	OU1EFSB11 6/5/2017 OU1EFSB11-S-0.50- 0.5-1 REG
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	--	--	--	--	--	< 0.0047	< 0.0042	< 0.0047	< 0.0042	< 0.0045	< 0.0046	< 0.004	< 0.004	< 0.0042	< 0.0042
Aroclor 1221	11104-28-2	--	--	--	--	--	< 0.006	< 0.0054	< 0.006	< 0.0054	< 0.0057	< 0.0059	< 0.0051	< 0.0051	< 0.0054	< 0.0053
Aroclor 1232	11141-16-5	--	--	--	--	--	< 0.01	< 0.0094	< 0.01	< 0.0093	< 0.0099	< 0.01	< 0.0089	< 0.0089	< 0.0094	< 0.0093
Aroclor 1242	53469-21-9	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Aroclor 1248	12672-29-6	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Aroclor 1254	11097-69-1	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Aroclor 1260	11096-82-5	--	--	--	--	--	< 0.0063	< 0.0057	< 0.0064	< 0.0057	< 0.0061	< 0.0063	< 0.0054	< 0.0055	< 0.0058	< 0.0057
Aroclor 1262	37324-23-5	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Aroclor 1268	11100-14-4	--	--	--	--	--	< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Pesticides																
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	< 0.00043	< 0.00039	< 0.00059	< 0.00038	< 0.00041	< 0.00042	0.00071 J	< 0.00036	< 0.00039	< 0.00038
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	< 0.00043	< 0.00039	0.0045	0.00086 JP	< 0.00041	< 0.00042	0.00091 J	< 0.00036	0.0007 J	0.00056 J
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	< 0.00045	< 0.00041	0.0033	0.00061 JP	< 0.00043	0.00084 JP	< 0.00039	< 0.00039	< 0.00041	< 0.00041
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	< 0.00022	< 0.0002	< 0.00022	< 0.0002	< 0.00021	< 0.00022	< 0.00019	< 0.00019	< 0.0002	< 0.0002
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	< 0.00022	< 0.0002	< 0.00022	< 0.0002	< 0.00021	< 0.00022	< 0.00019	< 0.00019	< 0.0002	< 0.0002
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	< 0.00022	< 0.0002	--	0.0014	< 0.00021	< 0.00022	0.0034	0.0021	0.0047	< 0.0002
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	< 0.00039	< 0.00035	< 0.00039	< 0.00035	< 0.00037	< 0.00038	< 0.00033	< 0.00033	< 0.00035	< 0.00035
delta BHC	319-86-8	0.25	0.04	0.04	100	100	< 0.00058	< 0.00053	< 0.00058	< 0.00052	< 0.00056	< 0.00057	< 0.0005	< 0.0005	< 0.00053	< 0.00052
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	< 0.00043	< 0.00039	< 0.00043	< 0.00038	< 0.00041	< 0.00042	< 0.00037	< 0.00036	< 0.00039	< 0.00038
Endosulfan I	959-98-8	102	--	2.4	4.8	24	< 0.00029	< 0.00026	< 0.00029	< 0.00026	< 0.00027	< 0.00028	< 0.00024	< 0.00024	< 0.00026	< 0.00026
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	< 0.00043	< 0.00039	< 0.00043	< 0.00038	< 0.00041	< 0.00042	< 0.00037	< 0.00036	< 0.00039	< 0.00038
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	< 0.00043	< 0.00039	< 0.00043	< 0.00038	< 0.00041	< 0.00042	< 0.00037	< 0.00036	< 0.00039	< 0.00038
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	< 0.00043	< 0.00039	< 0.00043	< 0.00038	< 0.00041	0.0011 J	< 0.00037	< 0.00036	< 0.00039	< 0.00038
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	< 0.00043	< 0.00039	< 0.00043	< 0.00038	< 0.00041	< 0.00042	< 0.00037	< 0.00036	< 0.00039	< 0.00038
ENDRIN KETONE	53494-70-5	--	--	--	--	--	< 0.00078	< 0.0007	< 0.0013 J	< 0.0007	< 0.00074	< 0.0013 J	< 0.00067	< 0.00066	< 0.00071	< 0.0007
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	< 0.00022	< 0.0002	< 0.00022	< 0.0002	< 0.00021	< 0.00022	< 0.00019	< 0.00019	< 0.0002	< 0.0002
gamma Chlordane	5103-74-2	14	--	--	0.54	--	< 0.00022	< 0.0002	0.00048 JP	< 0.0002	< 0.00021	< 0.0017 V	0.00032 JP	0.0003 J	0.00024 JP	< 0.0002
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	< 0.00022	< 0.0002	< 0.00022	< 0.0002	< 0.00021	< 0.00022	< 0.00019	< 0.00019	< 0.0002	< 0.0002
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	< 0.00022	< 0.0002	< 0.00022	< 0.0002	< 0.00021	< 0.00022	< 0.00019	< 0.00019	< 0.0002	< 0.0002
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	< 0.0022	< 0.002	< 0.0022	< 0.002	< 0.0021	< 0.0022	< 0.0019	< 0.0019	< 0.002	< 0.002
TOXAPHENE	8001-35-2	--	--	--	--	--	< 0.018	< 0.016	< 0.018	< 0.016	< 0.017	< 0.018	< 0.016	< 0.015	< 0.016	< 0.016
Metals																
Aluminum	7429-90-5	--	10000	--	--	--	12,000	15,000	17,600	18,500	16,900	16,700	18,800	19,400	16,700	15,900
Antimony	7440-36-0	--	12	--	--	--	0.0991 J	0.184 J	0.404 J	0.194 J	0.175 J	0.214 J	0.199 J	0.242 J	0.138 J	0.143 J
Arsenic	7440-38-2	16	13	13	16	16	6.45	9.2	7.91	7.11	7.77	7.66	7.76	8.59	7.35	6.73
Barium	7440-39-3	820	433	350	350	400	44.1	55.8	80.3	70.6	74.4	59.8	84	89.9	56.8	50
Beryllium	7440-41-7	47	10	7.2	14	72	0.546	0.679	0.742	0.76	0.745	0.711	0.834	0.894	0.676	0.664
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.0885 J	0.119 J	0.189 J	0.101 J	0.102 J	0.0959 J	0.0878 J	0.116 J	0.102 J	0.0862 J
Calcium	7440-70-2	--	10000	--	--	--	710	1,740	1,310	340	494	441	571	943	458	756
Chromium	7440-47-3	--	--	30	36	180	13	17	17	18.8	18.4	19.1	22.6	22.7	18.4	21.7
Cobalt	7440-48-4	--	20	--	30	--	9.14	10.2	10	10.9	11.1	13.7	14.1	14.7	10.7	11.1
Copper	7440-50-8	1720	50	50	270	270	20.9	26.4	17.6	16.7	19.8	22.4	29.8	33.3	20.7	24.2
Iron	7439-89-6	--	--	--	2000	--	20,300	25,000	22,600	26,200	27,600	30,000	32,500 E	33,300	26,800	30,900
Lead	7439-92-1	450	63	63	400	400	9.84	11.7	42.2	15.4	11.7	13.6	14	14.5	15.5	11.8
Magnesium	7439-95-4	--	--	--	--	--	3,960	5,070	4,370	4,900	5,220	5,100	6,460	6,340	5,190	5,810
Manganese	7439-96-5	2000	1600	1600	2000	2000	479	578	943	763	662	585	641	755	673	658
Nickel	7440-02-0	130	30	30	140	310	18.5	20.7	21.7	22.5	23.4	26.9	30.8	31.4	22.4	24.6
Potassium	7440-09-7	--	--	--	--	--	1,450	2,140	1,540	1,750	2,000	1,990	2,650	2,970	1,660	1,420
Selenium	7782-49-2	4	3.9	3.9	36	180	0.103 J	0.121 J	0.471 J	0.346 J	0.146 J	0.258 J	0.138 J	0.122 J	0.240 J	0.118 J
Silver	7440-22-4	8.3	2	2	36	180	< 0.0223	< 0.0271	0.113 J	0.0509 J	0.0230 J	0.0340 J	< 0.0198	< 0.0221	0.0426 J	0.0287 J
Sodium	7440-23-5	--	--	--	--	--	34.1 J	41.7 J	41.4 J	39.0 J	42.7 J	42.3 J	48.4 J	71.8 J	36.9 J	36.7 J
Thallium	7440-28-0	--	5	--	--	--	0.0867 J	0.127 J	0.145 J	0.145 J	0.110 J	0.109 J	0.127 J	0.132 J	0.119 J	0.0694 J
Vanadium	7440-62-2	--	39	--	100	--	16.7	23.3	40	28	25.2	23.6	25.2	27.3	25.7	24.4
Zinc	7440-66-6	2480	109	109	2200	10000	52	64.2	90	81.7	75.8	76.5	84.2	85.1	72.4	73.6
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0277 J	0.0404 J	0.118 J	0.0487 J	0.0466 J	0.0451 J	0.0492 J	0.0409 J	0.0531 J	0.0401 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB11 6/5/2017 OU1EFSB11-S-1.00- 1-2 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-0.17- 0.17-0.5 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-0.50- 0.5-1 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-1.00- 1-2 REG	OU1EFSB12 6/5/2017 OU1EFSB12-SD-0.50- 0.5-1 FD
Volatile Organic Compounds											
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
1,2-Dibromoethane	106-93-4	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	< 0.004	< 0.21	< 0.17	0.004 J	< 0.2
2-Hexanone	591-78-6	--	--	--	--	--	< 0.003	< 0.15	< 0.13	< 0.003	< 0.15
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.003	< 0.15	< 0.13	< 0.003	< 0.15
Acetone	67-64-1	0.05	2.2	0.05	100	100	0.031	< 0.36	< 0.3	0.074	< 0.36
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0005	< 0.026	< 0.022	< 0.0005	< 0.026
Bromochloromethane	74-97-5	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
Carbon disulfide	75-15-0	2.7	--	--	100	--	0.001 J	< 0.052	< 0.043	< 0.0009	< 0.051
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Cyclohexane	110-82-7	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
Diisopropyl ether	108-20-3	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Ethyl-t-butylether	637-92-3	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Isopropylbenzene	98-82-8	2.3	--	--	100	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Methyl acetate	79-20-9	--	--	--	--	--	< 0.002	0.71	0.45	< 0.002	1
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	< 0.0005	< 0.026	< 0.022	< 0.0005	< 0.026
Methylcyclohexane	108-87-2	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
o-Xylene	95-47-6	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	< 0.019	< 1	< 0.87	< 0.019	< 1
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.052	< 0.043	0.003 J	< 0.051
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	< 0.002	< 0.1	< 0.087	< 0.002	< 0.1
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.052	< 0.043	< 0.0009	< 0.051

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB11 6/5/2017 OU1EFSB11-S-1.00- 1-2 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-0.17- 0.17-0.5 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-0.50- 0.5-1 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-1.00- 1-2 REG	OU1EFSB12 6/5/2017 OU1EFSB12-SD-0.50- 0.5-1 FD
Semivolatile Organic Compounds											
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.13	< 0.11	< 0.11	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.37	< 0.38	< 0.33	< 0.34	< 0.35
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.008	0.022 J	< 0.007	0.008 J	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.13	< 0.11	< 0.11	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.21	< 0.18	< 0.19	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.041	< 0.042	< 0.037	< 0.038	< 0.038
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.02	0.033 J	< 0.018	< 0.019	< 0.019
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.21	< 0.18	< 0.19	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.004	< 0.004	< 0.004	< 0.004	0.008 J
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	< 0.020	< 0.021	< 0.018	< 0.019	< 0.019
Anthracene	120-12-7	1000	--	100	100	100	< 0.004	0.006 J	< 0.004	0.004 J	0.005 J
Atrazine	1912-24-9	--	--	--	--	--	< 0.041	< 0.042	< 0.037	< 0.038	< 0.038
Benzaldehyde	100-52-7	--	--	--	--	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.004	0.024	< 0.004	0.008 J	< 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.026	< 0.004	0.007 J	< 0.004
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	0.006 J	0.037	< 0.004 J	0.008 J	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.004	0.023	< 0.004	0.006 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.004	0.019 J	< 0.004	0.004 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
Caprolactam	105-60-2	--	--	--	--	--	< 0.041	< 0.042	< 0.037	< 0.038	< 0.038
Carbazole	86-74-8	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
Chrysene	218-01-9	1	--	1	1	3.9	< 0.004	0.028	< 0.004	0.008 J	< 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01	--	100	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
Di-n-octylphthalate	117-84-0	120	--	--	100	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	< 0.004	0.006 J	< 0.004	< 0.004	< 0.004
Dibenzofuran	132-64-9	6.20	--	7	14	59	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
Diethylphthalate	84-66-2	7.1	100	--	100	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
Dimethyl phthalate	131-11-3	27	200	--	100	--	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	60	--	--	--	< 0.020	< 0.021	< 0.018	< 0.019	< 0.019
Fluoranthene	206-44-0	1000	--	100	100	100	< 0.004	0.048	< 0.004	0.017 J	< 0.004
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004	< 0.004	0.007 J
Hexachlorobenzene	118-74-1	1.4	--	0.33	0.33	1.2	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
Hexachlorocyclopentadiene	77-47-4	--	10	--	--	--	< 0.2	< 0.21	< 0.18	< 0.19	< 0.19
Hexachloroethane	67-72-1	--	--	--	--	--	< 0.041	< 0.042	< 0.037	< 0.038	< 0.038
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	< 0.004	0.02 J	< 0.004	0.004 J	< 0.004
Isophorone	78-59-1	4.4	--	--	100	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	20	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
Naphthalene	91-20-3	12	--	12	100	100	< 0.004	< 0.004	< 0.004	< 0.004	0.014 J
Nitrobenzene	98-95-3	0.17	40	--	3.7	15	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
p-Chloro-m-cresol	59-50-7	--	--	--	--	--	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.041	< 0.042	< 0.037	< 0.038	< 0.038
Phenanthrene	85-01-8	1000	--	100	100	100	< 0.004	0.021 J	< 0.004	0.009 J	0.012 J
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
Pyrene	129-00-0	1000	--	100	100	100	0.004 J	0.043	< 0.004	0.014 J	0.004 J

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	OU1EFSB11 6/5/2017 OU1EFSB11-S-1.00- 1-2 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-0.17- 0.17-0.5 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-0.50- 0.5-1 REG	OU1EFSB12 6/5/2017 OU1EFSB12-S-1.00- 1-2 REG	OU1EFSB12 6/5/2017 OU1EFSB12-SD-0.50- 0.5-1 FD
Polychlorinated Biphenyls											
Aroclor 1016	12674-11-2	--	--	--	--	--	< 0.0044	< 0.0046	< 0.004	< 0.004	< 0.0041
Aroclor 1221	11104-28-2	--	--	--	--	--	< 0.0056	< 0.0058	< 0.0051	< 0.0052	< 0.0053
Aroclor 1232	11141-16-5	--	--	--	--	--	< 0.0098	< 0.01	< 0.0088	< 0.009	< 0.0092
Aroclor 1242	53469-21-9	--	--	--	--	--	< 0.004	< 0.0042	< 0.0036	< 0.0037	< 0.0038
Aroclor 1248	12672-29-6	--	--	--	--	--	< 0.004	< 0.0042	< 0.0036	< 0.0037	< 0.0038
Aroclor 1254	11097-69-1	--	--	--	--	--	< 0.004	< 0.0042	< 0.0036	< 0.0037	< 0.0038
Aroclor 1260	11096-82-5	--	--	--	--	--	< 0.006	< 0.0062	< 0.0054	< 0.0055	< 0.0056
Aroclor 1262	37324-23-5	--	--	--	--	--	< 0.004	< 0.0042	< 0.0036	< 0.0037	< 0.0038
Aroclor 1268	11100-14-4	--	--	--	--	--	< 0.004	< 0.0042	< 0.0036	< 0.0037	< 0.0038
Pesticides											
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	< 0.0004	0.00071 J	< 0.00037	< 0.0014	< 0.00038
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	0.00067 J	0.00074 J	0.00057 JP	< 0.00037	< 0.00038
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	< 0.00042	< 0.00044	< 0.00039	< 0.00039	< 0.0004
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	< 0.00021	< 0.00021	< 0.00019	< 0.00019	< 0.0002
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	< 0.00021	< 0.00021	< 0.00019	< 0.00019	< 0.0002
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	0.00092 J	0.0016	0.0031	0.0018	0.003
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	< 0.00036	< 0.00038	< 0.00033	< 0.00034	< 0.00035
delta BHC	319-86-8	0.25	0.04	0.04	100	100	< 0.00054	< 0.00057	< 0.0005	< 0.0005	< 0.00052
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	< 0.0004	< 0.00042	< 0.00037	< 0.00037	< 0.00038
Endosulfan I	959-98-8	102	--	2.4	4.8	24	< 0.00027	< 0.00028	< 0.00024	< 0.00025	< 0.00025
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	< 0.0004	< 0.00042	< 0.00037	< 0.00037	< 0.00038
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	< 0.0004	< 0.00042	< 0.00037	< 0.00037	< 0.00038
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	< 0.0004	< 0.00042	< 0.00037	< 0.00037	< 0.00038
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	< 0.0004	< 0.00042	< 0.00037	< 0.00037	< 0.00038
ENDRIN KETONE	53494-70-5	--	--	--	--	--	< 0.00072	< 0.00076	< 0.00067	< 0.00067	< 0.00069
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	< 0.00021	< 0.00021	< 0.00019	< 0.00019	< 0.0002
gamma Chlordane	5103-74-2	14	--	--	0.54	--	< 0.00021	< 0.00021	< 0.00019	0.00029 J	0.00021 JP
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	< 0.00021	< 0.00021	< 0.00019	< 0.00019	< 0.0002
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	< 0.00021	< 0.00021	< 0.00019	< 0.00019	< 0.0002
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	< 0.0021	< 0.0021	< 0.0019	< 0.0019	< 0.002
TOXAPHENE	8001-35-2	--	--	--	--	--	< 0.017	< 0.018	< 0.016	< 0.016	< 0.016
Metals											
Aluminum	7429-90-5	--	10000	--	--	--	15,900	17,100	15,900	17,400	16,600
Antimony	7440-36-0	--	12	--	--	--	0.134 J	0.148 J	0.150 J	0.170 J	0.165 J
Arsenic	7440-38-2	16	13	13	16	16	7.74	6.69	7.64	8.76	7.6
Barium	7440-39-3	820	433	350	350	400	51	67	60.3	71.6	62.9
Beryllium	7440-41-7	47	10	7.2	14	72	0.699	0.595	0.65	0.806	0.67
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	0.126 J	0.0820 J	0.0826 J	0.113 J	0.0796 J
Calcium	7440-70-2	--	10000	--	--	--	631	1,020	952	1,680	898
Chromium	7440-47-3	--	--	30	36	180	20.9	19	18.6	20.4	18.7
Cobalt	7440-48-4	--	20	--	30	--	11.2	10.7	11.6	12.2	11.3
Copper	7440-50-8	1720	50	50	270	270	27.1	20.1	17.4	23	18.6
Iron	7439-89-6	--	--	--	2000	--	32,200	27,500	28,100	33,100	26,900
Lead	7439-92-1	450	63	63	400	400	12.3	12.7	11.6	11.2	13.3
Magnesium	7439-95-4	--	--	--	--	--	5,960	5,270	5,060	5,670	4,850
Manganese	7439-96-5	2000	1600	1600	2000	2000	593	603	798	641	734
Nickel	7440-02-0	130	30	30	140	310	29.7	24.4	24.2	27.4	22.6
Potassium	7440-09-7	--	--	--	--	--	1,480	1,500	1,460	1,930	1,600
Selenium	7782-49-2	4	3.9	3.9	36	180	0.115 J	0.275 J	0.195 J	0.171 J	0.239 J
Silver	7440-22-4	8.3	2	2	36	180	0.0320 J	0.0404 J	0.0259 J	0.0339 J	0.0358 J
Sodium	7440-23-5	--	--	--	--	--	36.7 J	51.9 J	45.5 J	94.2	48.2 J
Thallium	7440-28-0	--	5	--	--	--	0.0758 J	0.120 J	0.109 J	0.113 J	0.131 J
Vanadium	7440-62-2	--	39	--	100	--	22.9	38.8	27.3	25.9	30.7
Zinc	7440-66-6	2480	109	109	2200	10000	86.2	65.7	62.7	84.2	66.2
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	0.0303 J	0.105 J	0.0407 J	0.0350 J	0.0393 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
POG: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
P: Concentration difference between the primary and confirmation column >40%. The lower result is reported.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	CBS1-SS-1 3/9/2006 SS-CBS1-01 2-2.5 REG	CBS1-SS-2 3/9/2006 SS-CBS1-02 2-2.5 REG	CBS1-SS-3 3/9/2006 SS-CBS1-03 2-2.5 REG	CBS1-SS-4 3/9/2006 SS-CBS1-04 2-2.5 REG	CBS1-SS-5 3/9/2006 SS-CBS1-05 2-2.5 REG	CBS1-SS-5 3/9/2006 SS-CBS1-105 2-2.5 FD	CBS1-SS-6 3/9/2006 SS-CBS1-06 2-2.5 REG	CBS1-SS-7 3/9/2006 SS-CBS1-07 2-2.5 REG	CBS1-SS-8 3/9/2006 SS-CBS1-08 2-2.5 REG	CBS1-SS-9 3/9/2006 SS-CBS1-09 2-2.5 REG	CBS3-SS-1 3/7/2006 SS-CBS3-1 2-2.5 REG
Volatile Organic Compounds																	
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	CBS1-SS-1 3/9/2006 SS-CBS1-01 2-2.5 REG	CBS1-SS-2 3/9/2006 SS-CBS1-02 2-2.5 REG	CBS1-SS-3 3/9/2006 SS-CBS1-03 2-2.5 REG	CBS1-SS-4 3/9/2006 SS-CBS1-04 2-2.5 REG	CBS1-SS-5 3/9/2006 SS-CBS1-05 2-2.5 REG	CBS1-SS-5 3/9/2006 SS-CBS1-105 2-2.5 FD	CBS1-SS-6 3/9/2006 SS-CBS1-06 2-2.5 REG	CBS1-SS-7 3/9/2006 SS-CBS1-07 2-2.5 REG	CBS1-SS-8 3/9/2006 SS-CBS1-08 2-2.5 REG	CBS1-SS-9 3/9/2006 SS-CBS1-09 2-2.5 REG	CBS3-SS-1 3/7/2006 SS-CBS3-1 2-2.5 REG
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.81	< 0.74	< 0.79	< 0.74	< 0.74	< 0.74	< 0.74	< 0.77	< 0.76	< 0.8	< 0.77
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.1 J	< 0.038	< 0.04	< 0.038
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
Acetophenone	98-86-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	1000	--	100	100	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.13 J	< 0.038	< 0.04	< 0.038
Atrazine	1912-24-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.041	< 0.037	0.044 J	0.056 J	< 0.037	< 0.037	< 0.037	0.69	< 0.038	< 0.04	< 0.038
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.041	< 0.037	0.043 J	0.044 J	< 0.037	< 0.037	< 0.037	0.48	< 0.038	< 0.04	< 0.038
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.041	< 0.037	0.048 J	0.056 J	< 0.037	< 0.037	< 0.037	0.69	< 0.038	< 0.04	< 0.038
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.041	< 0.037	0.047 J	0.042 J	< 0.037	< 0.037	< 0.037	0.28	< 0.038	< 0.04	< 0.038
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.33	< 0.038	< 0.04	< 0.038
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
Caprolactam	105-6																

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	CBS1-SS-1 3/9/2006 SS-CBS1-01 2-2.5 REG	CBS1-SS-2 3/9/2006 SS-CBS1-02 2-2.5 REG	CBS1-SS-3 3/9/2006 SS-CBS1-03 2-2.5 REG	CBS1-SS-4 3/9/2006 SS-CBS1-04 2-2.5 REG	CBS1-SS-5 3/9/2006 SS-CBS1-05 2-2.5 REG	CBS1-SS-5 3/9/2006 SS-CBS1-105 2-2.5 FD	CBS1-SS-6 3/9/2006 SS-CBS1-06 2-2.5 REG	CBS1-SS-7 3/9/2006 SS-CBS1-07 2-2.5 REG	CBS1-SS-8 3/9/2006 SS-CBS1-08 2-2.5 REG	CBS1-SS-9 3/9/2006 SS-CBS1-09 2-2.5 REG	CBS3-SS-1 3/7/2006 SS-CBS3-1 2-2.5 REG	
Polychlorinated Biphenyls																		
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																		
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																		
Aluminum	7429-90-5	--	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	16	13	13	16	16	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	820	433	350	350	400	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	47	10	7.2	14	72	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	--	--	30	36	180	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	--	20	--	30	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	1720	50	50	270	270	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	--	--	--	2000	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	450	63	63	400	400	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	7439-95-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	2000	1600	1600	2000	2000	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	130	30	30	140	310	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	4	3.9	3.9	36	180	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	8.3	2	2	36	180	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	--	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	39	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2480	109	109	2200	10000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
D1: Indicates for dual column analyses that the result is reported from column 1
D1: Indicates for dual column analyses that the result is reported from column 2
J : Result detected between the reporting limit and the method detection limit.
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	CBS3-SS-2 3/7/2006 SS-CBS3-2 2-2.5 REG	CBS3-SS-21 3/21/2006 SS-CBS3-21 2-2.5 REG	CBS3-SS-22 3/21/2006 SS-CBS3-22 2-2.5 REG	CBS3-SS-23 3/21/2006 SS-CBS3-23 2-2.5 REG	CBS3-SS-24 3/21/2006 SS-CBS3-24 2-2.5 REG	CBS3-SS-3 3/8/2006 SS-CBS3-3 2-2.5 REG	CBS3-SS-4 3/7/2006 SS-CBS3-104 2-2.5 FD	CBS3-SS-4 3/7/2006 SS-CBS3-4 2-2.5 REG	CBS3-SS-5 3/7/2006 SS-CBS3-5 2-2.5 REG	CBS3-SS-6 3/7/2006 SS-CBS3-6 2-2.5 REG	CBS3-SS-7 3/7/2006 SS-CBS3-7 2-2.5 REG	
Volatile Organic Compounds																		
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	--	--	--	--	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential-Restricted	CBS3-SS-2 3/7/2006 SS-CBS3-2 2-2.5 REG	CBS3-SS-21 3/21/2006 SS-CBS3-21 2-2.5 REG	CBS3-SS-22 3/21/2006 SS-CBS3-22 2-2.5 REG	CBS3-SS-23 3/21/2006 SS-CBS3-23 2-2.5 REG	CBS3-SS-24 3/21/2006 SS-CBS3-24 2-2.5 REG	CBS3-SS-3 3/8/2006 SS-CBS3-3 2-2.5 REG	CBS3-SS-4 3/8/2006 SS-CBS3-104 2-2.5 FD	CBS3-SS-4 3/7/2006 SS-CBS3-4 2-2.5 REG	CBS3-SS-5 3/7/2006 SS-CBS3-5 2-2.5 REG	CBS3-SS-6 3/7/2006 SS-CBS3-6 2-2.5 REG	CBS3-SS-7 3/7/2006 SS-CBS3-7 2-2.5 REG	
Semivolatile Organic Compounds																		
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	--	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.73	< 0.8	< 0.78	< 0.77	< 0.77	< 0.78	< 0.75	< 0.74	< 0.73	< 0.82	< 0.78	
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	0.056 J	0.52	
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.21	< 0.19	
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.21	< 0.19	
Acenaphthene	83-32-9	98	20	20	100	100	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	0.16 J	1.4	
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.037	0.052 J	0.046 J	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	0.12 J	2	
Acetophenone	98-86-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	1000	--	100	100	100	< 0.037	0.07 J	0.087 J	< 0.038	0.061 J	< 0.039	< 0.038	< 0.037	0.045 J	0.52	4.7	
Atrazine	1912-24-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.037	0.19 J	0.45	< 0.038	0.18 J	< 0.039	< 0.038	< 0.037	0.092 J	1.1	12	
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.037	0.14 J	0.38	< 0.038	0.16 J	< 0.039	< 0.038	< 0.037	0.064 J	0.77	8.6	
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.037	0.18 J	0.52	< 0.038	0.24	< 0.039	< 0.038	< 0.037	0.077 J	0.92	11	
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.037	0.094 J	0.29	< 0.038	0.12 J	< 0.039	< 0.038	< 0.037	0.041 J	0.51	5.1	
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.037	0.096 J	0.22	< 0.038	0.085 J	< 0.039	< 0.038	< 0.037	0.04 J	0.59	4.1	
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039	
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078	
Caprolactam	105-60-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--			

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	CBS3-SS-2 3/7/2006 SS-CBS3-2 2-2.5 REG	CBS3-SS-21 3/21/2006 SS-CBS3-21 2-2.5 REG	CBS3-SS-22 3/21/2006 SS-CBS3-22 2-2.5 REG	CBS3-SS-23 3/21/2006 SS-CBS3-23 2-2.5 REG	CBS3-SS-24 3/21/2006 SS-CBS3-24 2-2.5 REG	CBS3-SS-3 3/8/2006 SS-CBS3-3 2-2.5 REG	CBS3-SS-4 3/7/2006 SS-CBS3-104 2-2.5 FD	CBS3-SS-4 3/7/2006 SS-CBS3-4 2-2.5 REG	CBS3-SS-5 3/7/2006 SS-CBS3-5 2-2.5 REG	CBS3-SS-6 3/7/2006 SS-CBS3-6 2-2.5 REG	CBS3-SS-7 3/7/2006 SS-CBS3-7 2-2.5 REG	
Polychlorinated Biphenyls																		
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides																		
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																		
Aluminum	7429-90-5	--	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	16	13	13	16	16	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	820	433	350	350	400	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	47	10	7.2	14	72	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	--	--	30	36	180	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	--	20	--	30	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	1720	50	50	270	270	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	--	--	--	2000	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	450	63	63	400	400	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	7439-95-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	2000	1600	1600	2000	2000	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	130	30	30	140	310	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	4	3.9	3.9	36	180	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	8.3	2	2	36	180	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	--	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	39	--	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2480	109	109	2200	10000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
D1: Indicates for dual column analyses that the result is reported from column 1
D1: Indicates for dual column analyses that the result is reported from column 2
J : Result detected between the reporting limit and the method detection limit.
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	CBS3-SS-8 3/7/2006 SS-CBS3-8 2-2.5 REG	CBS3-SS-9 3/7/2006 SS-CBS3-9 2-2.5 REG	OU1EESB01 11/14/2018 181114 4-6 REG	OU1EESB01 11/14/2018 181114 6-8 REG	OU1EESB01 11/14/2018 181114 16-18 REG	OU1EESB08 11/14/2018 181114 4-6 REG	OU1EESB08 11/14/2018 181114 6-8 REG	OU1EESB20 11/14/2018 181114 4-6 REG	OU1EESB20 11/14/2018 181114 6-8 REG	OU1EESB20 11/14/2018 181114 9-10 REG	OU1EESB20 11/14/2018 181114 4-6 FD
Volatile Organic Compounds																	
1,1 Dichloroethene	75-35-4	0.33	--	0.33	100	100	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	< 0.004	< 0.004	< 0.004	--	--	< 0.004	< 0.004	< 0.004	< 0.005
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.039	< 0.04	< 0.004	< 0.004	< 0.004	--	--	< 0.004	< 0.004	< 0.004	< 0.005
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.039	< 0.04	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
1,2-Dichloropropane	78-87-5	--	700	--	--	--	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.039	< 0.04	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.039	< 0.04	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	--	--	0.002 J	0.001 J	< 0.0009	--	--	0.001 J	0.001 J	< 0.0009	0.003 J
2-Hexanone	591-78-6	--	--	--	--	--	--	--	< 0.0008	< 0.0008	< 0.0009	--	--	< 0.0009	< 0.0009	< 0.0009	< 0.0009
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	< 0.0008	< 0.0008	< 0.0009	--	--	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Acetone	67-64-1	0.05	2.2	0.05	100	100	--	--	0.038	0.03	0.019	--	--	0.031	0.023	0.019	0.044
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Bromoform	75-25-2	--	--	--	--	--	--	--	< 0.004	< 0.004	< 0.004	--	--	< 0.004	< 0.004	< 0.004	< 0.005
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	< 0.0006	< 0.0006	< 0.0006	--	--	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Carbon disulfide	75-15-0	2.7	--	--	100	--	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	< 0.0008	< 0.0008	< 0.0009	--	--	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Chloroform	67-66-3	0.37	12	0.37	10	49	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Cyclohexane	110-82-7	--	--	--	--	--	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Dibromochloromethane	124-48-1	--	10	--	--	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Ethylbenzene	100-41-4	1	--	1	30	41	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	< 0.0008	< 0.0008	< 0.0009	--	--	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Methyl acetate	79-20-9	--	--	--	--	--	--	--	< 0.0008	< 0.0008	< 0.0009	--	--	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	--	--	< 0.002	< 0.002	< 0.002	--	--	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	95-47-6	--	--	--	--	--	--	--	< 0.0003	< 0.0003	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Styrene	100-42-5	--	300	--	--	--	--	--	< 0.0002	< 0.0002	< 0.0003	--	--	< 0.0003	< 0.0003	< 0.0003	< 0.0003
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	< 0.0007	< 0.0007	< 0.0007	--	--	< 0.0007	< 0.0007	< 0.0007	< 0.0007
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	< 0.012	< 0.012	< 0.013	--	--	< 0.013	< 0.013	< 0.013	< 0.014
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Toluene	108-88-3	0.7	36	0.7	100	100	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	< 0.0002	< 0.0002	< 0.0003	--	--	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	--	--	< 0.0004	< 0.0004	< 0.0004	--	--	< 0.0004	< 0.0004	< 0.0004	< 0.0005
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	< 0.0006	< 0.0006	< 0.0006	--	--	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	--	--	< 0.0005	< 0.0005	< 0.0005	--	--	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	--	--	< 0.0008	< 0.0008	< 0.0009	--	--	< 0.0009	< 0.0009	< 0.0009	< 0.0009

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	CBS3-SS-8 3/7/2006 SS-CBS3-8 2-2.5 REG	CBS3-SS-9 3/7/2006 SS-CBS3-9 2-2.5 REG	OU1EESB01 11/14/2018 181114 4-6 REG	OU1EESB01 11/14/2018 181114 6-8 REG	OU1EESB01 11/14/2018 181114 16-18 REG	OU1EESB08 11/14/2018 181114 4-6 REG	OU1EESB08 11/14/2018 181114 6-8 REG	OU1EESB20 11/14/2018 181114 4-6 REG	OU1EESB20 11/14/2018 181114 6-8 REG	OU1EESB20 11/14/2018 181114 9-10 REG	OU1EESB20 11/14/2018 181114 4-6 FD
Semivolatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	--	--	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	--	--	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	--	--	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.079	< 0.079	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.039	< 0.04	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.039	< 0.04	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.12	< 0.12	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.79	< 0.79	< 0.4	< 0.4	< 0.41	< 0.44	< 0.44	< 0.42	< 0.41	< 0.4	< 0.42
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.039	< 0.04	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.039	< 0.04	< 0.007	< 0.007	< 0.007	< 0.008	< 0.008	< 0.008	< 0.007	< 0.007	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.039	< 0.04	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	0.05 J	0.069 J	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012	0.017 J	< 0.011	< 0.011	< 0.012
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.079	< 0.079	< 0.029	< 0.029	< 0.03	< 0.032	< 0.032	< 0.03	< 0.03	< 0.029	< 0.031
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.039	< 0.04	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.039	< 0.04	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.2	< 0.2	< 0.18	< 0.18	< 0.19	< 0.2	< 0.2	< 0.19	< 0.19	< 0.18	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.039	< 0.04	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.039	< 0.04	< 0.037	< 0.036	< 0.037	< 0.04	< 0.04	< 0.038	< 0.038	< 0.036	< 0.038
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.039	< 0.04	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.079	< 0.079	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.2	< 0.2	< 0.18	< 0.18	< 0.19	< 0.2	< 0.2	< 0.19	< 0.19	< 0.18	< 0.19
Acenaphthene	83-32-9	98	20	20	100	100	< 0.039	0.15 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.008 J	< 0.004	< 0.004	0.007 J
Acenaphthylene	208-96-8	107	--	100	100	100	0.19 J	0.2	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	--	--	--	--	< 0.026	< 0.025	< 0.026	< 0.028	< 0.028	< 0.026	< 0.026	< 0.025	< 0.027
Anthracene	120-12-7	1000	--	100	100	100	0.44	0.52	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.017 J	< 0.004	< 0.004	0.02
Atrazine	1912-24-9	--	--	--	--	--	--	--	< 0.037	< 0.036	< 0.037	< 0.04	< 0.04	< 0.038	< 0.038	< 0.036	< 0.038
Benzaldehyde	100-52-7	--	--	--	--	--	--	--	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
Benzo(a)anthracene	56-55-3	1	--	1	1	1	1.1	1.2	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004	0.11	< 0.004	< 0.004	0.11
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.82	0.85	< 0.007	< 0.007	< 0.007	< 0.008	< 0.008	0.11	< 0.008	< 0.007	0.13
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	1.1	1.2	< 0.004	< 0.004	< 0.004	0.01 J	< 0.004	0.14	< 0.004	< 0.004	0.16
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	0.54	0.56	< 0.007	< 0.007	< 0.007	< 0.008	< 0.008	0.082	< 0.008	< 0.007	0.083
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	0.38	0.44	0.005 J	< 0.004	< 0.004	0.006 J	< 0.004	0.066	< 0.004	< 0.004	0.075
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.039	< 0.04	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.039	< 0.04	< 0.026	< 0.025	< 0.026	< 0.028	< 0.028	< 0.026	< 0.026	< 0.025	< 0.027
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.039	< 0.04	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	<										

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	CBS3-SS-8 3/7/2006 SS-CBS3-8 2-2.5 REG	CBS3-SS-9 3/7/2006 SS-CBS3-9 2-2.5 REG	OU1EESB01 11/14/2018 181114 4-6 REG	OU1EESB01 11/14/2018 181114 6-8 REG	OU1EESB01 11/14/2018 181114 16-18 REG	OU1EESB08 11/14/2018 181114 4-6 REG	OU1EESB08 11/14/2018 181114 6-8 REG	OU1EESB20 11/14/2018 181114 4-6 REG	OU1EESB20 11/14/2018 181114 6-8 REG	OU1EESB20 11/14/2018 181114 9-10 REG	OU1EESB20 11/14/2018 181114 4-6 FD	
Polychlorinated Biphenyls																		
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0041 D1	< 0.004 D1	< 0.0039 D1	< 0.0041 D1
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0052 D1	< 0.0052 D1	< 0.005 D1	< 0.0053 D1
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0091 D1	< 0.009 D1	< 0.0087 D1	< 0.0092 D1
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0038 D1	< 0.0037 D1	< 0.0036 D1	< 0.0038 D1
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0038 D1	< 0.0037 D1	< 0.0036 D1	< 0.0038 D1
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0038 D1	< 0.0037 D1	< 0.0036 D1	< 0.0038 D1
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0056 D1	< 0.0055 D1	< 0.0053 D1	< 0.0056 D1
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0038 D1	< 0.0037 D1	< 0.0036 D1	< 0.0038 D1
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0038 D1	< 0.0037 D1	< 0.0036 D1	< 0.0038 D1
Pesticides																		
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	< 0.00038 D1	< 0.00037 D1	< 0.00036 D1	< 0.00038 D1
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	< 0.00038 D1	< 0.00037 D1	< 0.00036 D1	< 0.00038 D1
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	< 0.0009 D2	< 0.00089 D2	< 0.00086 D2	< 0.00091 D2
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	< 0.00019 D1	< 0.00019 D1	< 0.00019 D1	< 0.0002 D1
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	< 0.00019 D1	< 0.00019 D1	< 0.00019 D1	< 0.0002 D2
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	< 0.00019 D1	< 0.00019 D1	< 0.00019 D1	< 0.0002 D1
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	< 0.0005 D1	< 0.00049 D2	< 0.00048 D1	< 0.00051 D1
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	< 0.00051 D1	< 0.0005 D1	< 0.00049 D1	< 0.00052 D2
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	< 0.00038 D2	< 0.00037 D2	< 0.00036 D1	< 0.00038 D2
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	< 0.00025 D1	< 0.00025 D2	< 0.00024 D2	< 0.00025 D2
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	< 0.0013 D1	< 0.0012 D2	< 0.0012 D2	< 0.0013 D2
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	< 0.00038 D2	< 0.00037 D2	< 0.00036 D1	< 0.00038 D1
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	< 0.00077 D1	< 0.00076 D1	< 0.00074 D2	< 0.00078 D1
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00038 D1	< 0.00037 D1	< 0.00036 D1	< 0.00038 D1
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00068 D1	< 0.00067 D1	< 0.00065 D1	< 0.00069 D1
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	< 0.00024 D2	< 0.00024 D2	< 0.00023 D2	< 0.00024 D1
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	< 0.00028 D2	< 0.00028 D2	< 0.00027 D2	< 0.00029 D2
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	< 0.00035 D2	< 0.00035 D2	< 0.00034 D2	< 0.00036 D2
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	< 0.00019 D2	< 0.00019 D1	< 0.00019 D2	< 0.0002 D1
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	< 0.002 D2	< 0.002 D2	< 0.002 D2	< 0.0021 D2
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.016 D1	< 0.016 D1	< 0.015 D1	< 0.016 D1
Metals																		
Aluminum	7429-90-5	--	10000	--	--	--	--	--	13,100	12,100	13,900	18,300	12,400	15,900	13,900	13,400	15,700	
Antimony	7440-36-0	--	12	--	--	--	--	--	0.239 J	< 0.109	< 0.111	0.134 J	< 0.143	< 0.109	0.118 J	< 0.0978	< 0.122	
Arsenic	7440-38-2	16	13	13	16	16	--	--	8.41	5.9	4.77	7.92	5.95	5.75	6.08	4.84	6.6	
Barium	7440-39-3	820	433	350	350	400	--	--	39.9	33.6	58.7	81.9	39.9	54.7	46.1	46.3	53.6	
Beryllium	7440-41-7	47	10	7.2	14	72	--	--	0.661	0.536	0.58	0.744	0.592	0.636	0.602	0.582	0.641	
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	--	--	0.0957 J	0.103 J	0.0741 J	0.107 J	0.132 J	0.128 J	0.142 J	0.174	0.142 J	
Calcium	7440-70-2	--	10000	--	--	--	--	--	601	1,340	23,600	2,040	1,400	1,440	1,950	16,400	1,360	
Chromium	7440-47-3	--	--	30	36	180	--	--	15.3	14.1	17.5	48.6	14.8	18.7	17.3	16.3	18.9	
Cobalt	7440-48-4	--	20	--	30	--	--	--	9.53	8.26	9.55	10.4	10.1	11.6	12.2	10.8	11.6	
Copper	7440-50-8	1720	50	50	270	270	--	--	25.4	23.7	21.3	26	23.5	27	28.3	23.9	31.7	
Iron	7439-89-6	--	--	--	2000	--	--	--	25,500	24,700	25,100	26,400	24,000	29,400	28,600	26,600	30,400	
Lead	7439-92-1	450	63	63	400	400	--	--	15.1	8.98	9.59	20	10.5	12	12.3	11.1	14	
Magnesium	7439-95-4	--	--	--	--	--	--	--	4,440	4,670	12,100	5,170	4,960	5,510	5,850	7,300	5,630	
Manganese	7439-96-5	2000	1600	1600	2000	2000	--	--	548	624	498	938	549	699	670	658	890	
Nickel	7440-02-0	130	30	30	140	310	--	--	18.8	17.9	21.1	25.9	21.3	23.5	26	23.2	24.8	
Potassium	7440-09-7	--	--	--	--	--	--	--	1,420	1,600	2,260	1,610	1,700	2,060	1,660	1,880	1,860	
Selenium	7782-49-2	4	3.9	3.9	36	180	--	--	0.134 J	< 0.113	0.145 J	0.42	< 0.148	< 0.113	0.112 J	< 0.101	< 0.126	
Silver	7440-22-4	8.3	2	2	36	180	--	--	< 0.0352	< 0.0351	0.0446 J	0.0534 J	< 0.0459	< 0.0352	0.0492 J	< 0.0314	0.0452 J	
Sodium	7440-23-5	--	--	--	--	--	--	--	< 69.7	< 69.6	79 J	< 76.7	< 90.9	< 69.6	< 61.9	< 62.2	< 77.5	
Thallium	7440-28-0	--	5	--	--	--	--	--	0.0885	0.0593 J	0.0943	0.151	0.133	0.0967	0.0866	0.0959	0.0799 J	
Vanadium	7440-62-2	--	39	--	100	--	--	--	18.9	18.9	19.9	25.4	18.7	21.3	18.7	19.7	21.4	
Zinc	7440-66-6	2480	109	109	2200	10000	--	--	61.7	63.9	62.8	77.7	70	75.9	80.1	74.5	86.5	
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	--	--	< 0.0349	< 0.0319	< 0.0333	0.0469 J	< 0.0374	< 0.035	< 0.0325	< 0.0329	< 0.0355	

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
D1: Indicates for dual column analyses that the result is reported from column 1
D1: Indicates for dual column analyses that the result is reported from column 2
J : Result detected between the reporting limit and the method detection limit.
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	SS-C01 2/6/2006 SS-C01-0-0.5 8-12 REG	SS-C02 2/6/2006 SS-C02-0-0.5 8-12 REG	SS-C03 2/7/2006 SS-C03-0-0.5 8-12 REG	SS-C04 2/16/2006 SS-C04-0-0.5 8-12 REG	SS-C05 2/17/2006 SS-C05 8-12 REG	SS-C06 2/17/2006 SS-C06 8-12 REG	SS-C07 2/17/2006 SS-C07 8-12 REG	SS-C08 2/17/2006 SS-C08 2-2.5 REG	
Volatile Organic Compounds															
1,1-Dichloroethene	75-35-4	0.33	--	0.33	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
1,1,1-Trichloroethane	71-55-6	0.68	--	0.68	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	--	35	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	--	100	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethane	75-34-3	0.27	--	0.27	19	26	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
1,2,3-Trichlorobenzene	87-61-6	--	20	--	--	--	--	--	--	--	--	--	--	--	
1,2,4-Trichlorobenzene	120-82-1	3.4	20	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	--	1.1	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042	
1,2-Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
1,2-Dichloropropane	78-87-5	--	700	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
1,3-Dichlorobenzene	541-73-1	2.4	--	2.4	17	49	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042	
1,4-Dichlorobenzene	106-46-7	1.8	20	1.8	9.8	13	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042	
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	100	0.12	100	100	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005	
2-Hexanone	591-78-6	--	--	--	--	--	< 0.003	< 0.004	< 0.003	< 0.004	< 0.004	< 0.004	< 0.003	< 0.004	
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	< 0.003	< 0.004	< 0.003	< 0.004	< 0.004	< 0.004	< 0.003	< 0.004	
Acetone	67-64-1	0.05	2.2	0.05	100	100	< 0.008	< 0.009	< 0.008	0.009 J	< 0.009	< 0.009	< 0.008	< 0.009	
Benzene	71-43-2	0.06	70	0.06	2.9	4.8	< 0.0006	< 0.0006	< 0.0006	0.0008 J	< 0.0006	< 0.0006	< 0.0005	< 0.0006	
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromodichloromethane	75-27-4	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Bromoform	75-25-2	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.003	
Carbon disulfide	75-15-0	2.7	--	--	100	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Carbon Tetrachloride	56-23-5	0.76	--	0.76	1.4	2.4	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Chlorobenzene	108-90-7	1.1	40	1.1	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Chloroethane	75-00-3	1.9	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.003	
Chloroform	67-66-3	0.37	12	0.37	10	49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.003	
cis-1,2-Dichloroethene	156-59-2	0.25	--	0.25	59	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibromochloromethane	124-48-1	--	10	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	--	--	--	--	
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethylbenzene	100-41-4	1	--	1	30	41	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Isopropylbenzene	98-82-8	2.3	--	--	100	--	--	--	--	--	--	--	--	--	
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl-t-butyl ether	1634-04-4	0.93	--	0.93	62	100	--	--	--	--	--	--	--	--	
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.003	
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	--	--	--	--	
Styrene	100-42-5	--	300	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--	
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Toluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	0.007	< 0.001	< 0.001	< 0.001	< 0.001	
trans-1,2-Dichloroethene	156-60-5	0.19	--	0.19	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Vinyl chloride (Chloroethene)	75-01-4	0.02	--	0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Xylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	0.006 J	< 0.001	< 0.001	< 0.001	< 0.001	

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	SS-C01 2/6/2006 SS-C01-0-0.5 8-12 REG	SS-C02 2/6/2006 SS-C02-0-0.5 8-12 REG	SS-C03 2/7/2006 SS-C03-0-0.5 8-12 REG	SS-C04 2/16/2006 SS-C04-0-0.5 8-12 REG	SS-C05 2/17/2006 SS-C05 8-12 REG	SS-C06 2/17/2006 SS-C06 8-12 REG	SS-C07 2/17/2006 SS-C07 8-12 REG	SS-C08 2/17/2006 SS-C08 2-2.5 REG
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	0.1	4	--	100	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
2,4,6-Trichlorophenol	88-06-2	--	10	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
2,4-Dichlorophenol	120-83-2	0.4	20	--	100	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
2,4-Dimethylphenol	105-67-9	--	--	--	--	--	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.13	< 0.11	< 0.13
2,4-Dinitrophenol	51-28-5	0.2	20	--	100	--	< 0.75	< 0.81	< 0.76	< 0.81	< 0.83	< 0.84	< 0.73	< 0.85
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
2,6-Dinitrotoluene	606-20-2	0.17	--	--	1.03	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
2-Chloronaphthalene	91-58-7	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	0.80	--	100	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
2-Methyl-Naphthalene	91-57-6	36.4	--	--	0.41	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
2-Methylphenol (o-Cresol)	95-48-7	0.33	--	0.33	100	100	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	--	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.13	< 0.11	< 0.13
3-Nitroaniline	99-09-2	0.5	--	--	--	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	--	--	< 0.19	< 0.2	< 0.19	< 0.2	< 0.21	< 0.21	< 0.18	< 0.21
4-Bromophenylphenylether	101-55-3	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
4-Chloroaniline	106-47-8	0.22	--	--	100	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
4-Methylphenol (p-Cresol)	106-44-5	0.33	--	0.33	34	100	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
4-Nitroaniline	100-01-6	--	--	--	--	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
4-Nitrophenol	100-02-7	0.1	7	--	--	--	< 0.19	< 0.2	< 0.19	< 0.2	< 0.21	< 0.21	< 0.18	< 0.21
Acenaphthene	83-32-9	98	20	20	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Acenaphthylene	208-96-8	107	--	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Acetophenone	98-86-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	1000	--	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Atrazine	1912-24-9	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	1	--	1	1	1	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Benzo(b)fluoranthene	205-99-2	1.70	--	1	1	1	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Benzo(g,h,i)perylene	191-24-2	1000	--	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Benzo(k)fluoranthene	207-08-9	1.7	--	0.8	1	3.9	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	--	< 0.038	< 0.041	< 0.038	0.085 J	< 0.042	< 0.042	< 0.036	< 0.042
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
bis(2-Ethylhexyl)phthalate	117-81-7	435	239	--	50	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Butylbenzylphthalate	85-68-7	122	--	--	100	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Caprolactam	105-60-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Chrysene	218-01-9	1	--	1	1	3.9	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Di-n-butylphthalate	84-74-2	8.1	0.01	--	100	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Di-n-octylphthalate	117-84-0	120	--	--	100	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Dibenz(a,h)anthracene	53-70-3	1000	--	0.33	0.33	0.33	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Dibenzofuran	132-64-9	6.20	--	7	14	59	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Diethylphthalate	84-66-2	7.1	100	--	100	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Dimethyl phthalate	131-11-3	27	200	--	100	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	60	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	1000	--	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Fluorene	86-73-7	386	30	30	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Hexachlorobenzene	118-74-1	1.4	--	0.33	0.33	1.2	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Hexachlorobutadiene	87-68-3	--	--	--	--	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Hexachlorocyclopentadiene	77-47-4	--	10	--	--	--	< 0.19	< 0.2	< 0.19	< 0.2	< 0.21	< 0.21	< 0.18	< 0.21
Hexachloroethane	67-72-1	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	--	0.5	0.5	0.5	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Isophorone	78-59-1	4.4	--	--	100	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	20	--	--	--	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Naphthalene	91-20-3	12	--	12	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Nitrobenzene	98-95-3	0.17	40	--	3.7	15	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
p-Chloro-m-cresol	59-50-7	--	--	--	--	--	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.19	< 0.2	< 0.19	< 0.2	< 0.21	< 0.21	< 0.18	< 0.21
Phenanthrene	85-01-8	1000	--	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Pyrene	129-00-0	1000	--	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	375-6.8(b) & CP-51 Residential- Restricted	SS-C01 2/6/2006 SS-C01-0-0.5 8-12 REG	SS-C02 2/6/2006 SS-C02-0-0.5 8-12 REG	SS-C03 2/7/2006 SS-C03-0-0.5 8-12 REG	SS-C04 2/16/2006 SS-C04-0-0.5 8-12 REG	SS-C05 2/17/2006 SS-C05 8-12 REG	SS-C06 2/17/2006 SS-C06 8-12 REG	SS-C07 2/17/2006 SS-C07 8-12 REG	SS-C08 2/17/2006 SS-C08 2-2.5 REG	
Polychlorinated Biphenyls															
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides															
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13	--	--	--	--	--	--	--	--	--
4,4-DDE	72-55-9	17	0.0033	0.0033	1.8	8.9	--	--	--	--	--	--	--	--	--
4,4-DDT	50-29-3	136	0.0033	0.0033	1.7	7.9	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	--	--	--	--	--	--	--	--	--
alpha BHC	319-84-6	0.02	0.04	0.02	0.097	0.48	--	--	--	--	--	--	--	--	--
alpha Chlordane	5103-71-9	2.9	1.30	0.094	0.91	4.2	--	--	--	--	--	--	--	--	--
beta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36	--	--	--	--	--	--	--	--	--
delta BHC	319-86-8	0.25	0.04	0.04	100	100	--	--	--	--	--	--	--	--	--
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039	0.2	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	102	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	--	2.4	4.8	24	--	--	--	--	--	--	--	--	--
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11	--	--	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3	--	--	--	--	--	--	--	--	--
gamma Chlordane	5103-74-2	14	--	--	0.54	--	--	--	--	--	--	--	--	--	--
HEPTACHLOR	76-44-8	0.38	0.14	0.042	0.42	2.1	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	--	0.077	--	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	72-43-5	900	1.2	--	100	--	--	--	--	--	--	--	--	--	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals															
Aluminum	7429-90-5	--	10000	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	--	12	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	16	13	13	16	16	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	820	433	350	350	400	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	47	10	7.2	14	72	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	7.50	4	2.5	2.5	4.3	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	10000	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	--	--	30	36	180	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	--	20	--	30	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	1720	50	50	270	270	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	--	--	--	2000	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	450	63	63	400	400	--	--	--	--	--	--	--	--	--
Magnesium	7439-95-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	2000	1600	1600	2000	2000	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	130	30	30	140	310	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	4	3.9	3.9	36	180	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	8.3	2	2	36	180	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	--	5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	39	--	100	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2480	109	109	2200	10000	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.73	0.18	0.18	0.81	0.81	--	--	--	--	--	--	--	--	--

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
PER: Protection of Ecological Resources
< : Not detected at the laboratory method detection limit.
D1: Indicates for dual column analyses that the result is reported from column 1
D1: Indicates for dual column analyses that the result is reported from column 2
J : Result detected between the reporting limit and the method detection limit.
Underline: Exceeds POG SCO
Italics: Protection of Ecological Criteria
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-8A 8/21/2007 REG	DB-8A 11/28/2007 REG	DB-8A 6/10/2008 REG	DB-8A 11/18/2008 REG	DB-8A 7/15/2009 REG	DB-8A 11/10/2009 FD	DB-8A 11/10/2009 REG	DB-8A 5/26/2010 REG	DB-8A 10/12/2010 REG	DB-8A 5/11/2011 REG	DB-8A 11/10/2011 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.9 J	< 0.8
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	1 J	2 J	< 0.8	1 J	< 0.8	1 J	1 J	< 0.8	1 J	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

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Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	13	6	7	9	7	6	6	6	13	31	8
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 20	< 19	< 19	< 19	< 19	< 22	< 20	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 6	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
4-Chloroaniline	106-47-8	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5
4-Nitroaniline	100-01-6	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 9	< 10	< 11	< 10	< 10	< 10	< 10	< 10
Acenaphthene	83-32-9	20	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1

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Acenaphthylene	208-96-8	--	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Chrysene	218-01-9	0.002	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Dibenz(a,h)anthracene	84-74-2	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Dibenzofuran	117-84-0	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Fluorene	86-73-7	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	5 J	4 J	4 J	5 J	4 J	4 J	4 J	4 J	3 J	2 J	4
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 6	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Isophorone	78-59-1	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Naphthalene	621-64-7	10	0.011	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Nitrobenzene	86-30-6	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Pentachlorophenol	87-86-5	1	--	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1
Phenanthrene	85-01-8	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Phenol	108-95-2	1	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Pyrene	129-00-0	50	--	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-8A 8/21/2007 REG	DB-8A 11/28/2007 REG	DB-8A 6/10/2008 REG	DB-8A 11/18/2008 REG	DB-8A 7/15/2009 REG	DB-8A 11/10/2009 FD	DB-8A 11/10/2009 REG	DB-8A 5/26/2010 REG	DB-8A 10/12/2010 REG	DB-8A 5/11/2011 REG	DB-8A 11/10/2011 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	< 6.9	9.5 J	< 6.9	10.1 J	--	< 6.9	< 6.9	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	--	--	--	--	< 6.9	--	--	< 6.9	< 6.9	< 6.9	< 2.2
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-8A 7/18/2012 REG	DB-8A 10/23/2012 REG	DB-8A 6/11/2013 REG	DB-8A 11/13/2013 REG	DB-8A 6/11/2014 REG	DB-8A 11/12/2014 REG	DB-8A 6/22/2015 REG	DB-8A 11/17/2015 REG	DB-8A 6/13/2016 REG	DB-8A 11/16/2016 REG	DB-8A 6/27/2017 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	0.9 J	< 0.5	< 0.6	0.6 J
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	0.7 J	< 0.5	< 0.5
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 0.5	0.5 J	< 0.5	0.6 J	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	1 J	< 0.5	1	< 0.5	0.8 J	< 0.5	< 0.7	0.5 J
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-8A 7/18/2012 REG	DB-8A 10/23/2012 REG	DB-8A 6/11/2013 REG	DB-8A 11/13/2013 REG	DB-8A 6/11/2014 REG	DB-8A 11/12/2014 REG	DB-8A 6/22/2015 REG	DB-8A 11/17/2015 REG	DB-8A 6/13/2016 REG	DB-8A 11/16/2016 REG	DB-8A 6/27/2017 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	4 J	8	5 J	8	9	4	8	11	3	< 8	11
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 10	< 11	< 10	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2	< 2	< 2	< 2
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 10	< 11	< 10	< 10
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-8A 7/18/2012 REG	DB-8A 10/23/2012 REG	DB-8A 6/11/2013 REG	DB-8A 11/13/2013 REG	DB-8A 6/11/2014 REG	DB-8A 11/12/2014 REG	DB-8A 6/22/2015 REG	DB-8A 11/17/2015 REG	DB-8A 6/13/2016 REG	DB-8A 11/16/2016 REG	DB-8A 6/27/2017 REG
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	117-84-0	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	3	3	3	4	4	4	3	1	2	< 0.5	0.8 J
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	621-64-7	10	0.011	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	129-00-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-8A 7/18/2012 REG	DB-8A 10/23/2012 REG	DB-8A 6/11/2013 REG	DB-8A 11/13/2013 REG	DB-8A 6/11/2014 REG	DB-8A 11/12/2014 REG	DB-8A 6/22/2015 REG	DB-8A 11/17/2015 REG	DB-8A 6/13/2016 REG	DB-8A 11/16/2016 REG	DB-8A 6/27/2017 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 5.1	< 5.1	< 5.1	< 4.7	< 4.7	< 4.7	< 4.7	< 5.1	< 5.1	< 6.2	< 6
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-8A 10/31/2017 REG	DB-8A 6/12/2018 REG	DB-8A 11/2/2018 REG	DB-8A 6/20/2019 REG	DB-8A 10/31/2019 REG	DB-8A 12/3/2019 REG	DB-8A 4/23/2020 REG	DB-8A 10/12/2020 REG	DB-8A 4/27/2021 REG	DB-8A 10/6/2021 REG	DB-17 7/15/2009 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.5	< 0.5	< 0.3	< 1.0	0.36 J	--	< 1	0.525	< 0.500	< 0.500	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	--
1,1-Dichloroethane	75-34-3	5	--	0.6 J	< 0.5	< 0.2	< 1.0	0.48 J	--	< 1	0.77	< 0.500	< 0.500	< 1
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	< 2.5	< 2.50	< 2.50	< 2.50	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	--	< 1	< 1.00	< 1.00	< 1.00	< 1
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	< 1.0	< 1.0	--	< 5	< 0.00500	< 0.00500	< 0.00500	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	--	< 1	0.106 J	< 0.500	< 0.500	< 1
1,2-Dichloroethene	540-59-0	5	--	< 0.5	< 0.5	< 0.2	--	--	--	--	--	--	--	< 0.8
1,2-Dichloropropane	78-87-5	1	--	< 0.5	< 0.5	0.3 J	< 1.0	0.63 J	--	< 1	< 0.500	< 0.500	0.243 J	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	< 1	< 1.00	< 1.00	< 1.00	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	< 5.0	< 5.0	--	< 10	< 5.00	< 5.00	< 5.00	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 0.2	--	--	--	--	< 50.0	< 50.0	< 50.0	< 2
2-Hexanone	591-78-6	50	--	--	--	--	< 5.0	< 5.0	--	--	< 5.00	< 5.00	< 5.00	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	< 5.0	< 5.0	--	< 10	< 5.00	< 5.00	< 5.00	--
Acetone	67-64-1	50	--	--	--	--	< 5.0	< 5.0	--	< 50	< 25.0	< 25.0	< 25.0	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	< 10	< 5.00	< 5.00	< 5.00	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	< 10	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
Bromochloromethane	74-97-5	--	83	--	--	--	< 1.0	< 1.0	--	--	< 0.500	< 0.500	< 0.500	--
Bromodichloromethane	75-27-4	50	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
Bromoform	75-25-2	50	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 1
Carbon disulfide	75-15-0	60	--	--	--	--	< 1.0	< 1.0	--	--	< 0.500	< 0.500	< 0.500	--
Carbon Tetrachloride	56-23-5	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
Chlorobenzene	108-90-7	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.8
Chloroethane	75-00-3	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 1
Chloroform	67-66-3	7	--	0.7 J	< 0.5	0.6 J	< 1.0	0.94 J	--	< 5	0.78	0.282 J	< 0.352	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 2.5	< 1.25	< 1.25	< 1.25	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	< 1.0	0.32 J	--	0.153 J	0.206 J	0.915 J3	< 0.500	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	< 1.0	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	< 1	0.601	< 0.500	< 0.500	--
Ethylbenzene	100-41-4	5	--	< 0.5	< 0.5	< 0.4	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	< 5.00	< 5.00	< 5.00	--
Isopropylbenzene	98-82-8	--	450	--	--	--	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--

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Methyl acetate	79-20-9	--	20000	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	< 50	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
o-Xylene	95-47-6	--	190	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
Styrene	100-42-5	5	--	--	--	--	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.8
Toluene	108-88-3	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	< 5.00	< 5.00	< 5.00	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	10	3	10	2.6	12	--	2.15	12.3	7.02	2.71	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 2
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	< 5.00	< 5.00	< 5.00	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 1
Xylene (total)	1330-20-7	5	--	< 0.5	< 0.5	< 1	--	--	--	< 3	< 1.50	< 1.50	< 1.50	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	< 10	< 10	--	--	< 10.5	< 10.0	< 10.0	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	< 50	< 50	2.2	--	11.8	1.33	1.43	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	< 10	< 10	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	--	< 1.05	< 1.00	< 1.00	< 1
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 1.05	< 1.00	< 1.00	< 1
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 5.25	< 5.00	< 5.00	< 1
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 3	< 3	< 10	< 10	--	< 10	< 10.5	< 10.0	< 10.0	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 14	< 15	< 20	< 20	--	< 10	< 10.5	< 10.0	< 10.0	< 23
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 2.0	< 2.0	--	< 10	< 5.25	< 5.00	< 5.00	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 2.0	< 2.0	--	< 10	< 5.25	< 5.00	< 5.00	< 1
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 10	< 10	--	< 1	< 0.250	< 0.250	< 0.250	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 1.05	< 1.00	< 1.00	< 1
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 10	< 10	--	--	< 0.250	< 0.250	< 0.250	< 1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	--	< 1.05	< 1.00	< 1.00	< 1
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 2	< 2	< 10	< 10	--	--	< 5.25	< 5.00	< 10.0	< 1
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 3	< 3	< 10	< 10	--	< 10	< 1.05	< 1.00	< 10.0	< 1
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	< 1.05	< 1.00	< 1.00	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 3	< 3	< 10	< 10	--	< 10	< 10.5	< 10.0	< 10.0	< 2
3-Nitroaniline	99-09-2	5	--	< 0.5	< 3	< 3	< 10	< 10	--	--	< 5.25	< 5.00	< 5.00	< 1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 8	< 8	< 20	< 20	--	< 10	< 10.5	< 10.0	< 10.0	< 6
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 10.5	< 10.0	< 10.0	< 1
4-Chloroaniline	106-47-8	5	--	< 2	< 4	< 4	< 10	< 10	--	--	< 5.25	< 5.00	< 5.00	< 1
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 10.5	< 10.0	< 10.0	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	--	--	--	--	< 2
4-Nitroaniline	100-01-6	5	--	< 0.5	< 0.9	< 0.9	< 10	< 10	--	--	< 5.25	< 5.00	< 5.00	< 1
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 20	< 20	--	< 10	< 10.5	< 10.0	< 10.0	< 11
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1

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Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Acetophenone	98-86-2	--	1900	--	--	--	< 10	< 10	--	--	< 10.5	< 10.0	< 10.0	--
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Atrazine	1912-24-9	--	0.3	--	--	--	< 2.0	< 2.0	--	--	< 10.5	< 10.0	< 10.0	--
Benzaldehyde	100-52-7	--	19	--	--	--	< 10	< 10	--	--	< 10.5	< 10.0	< 10.0	--
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	--	< 0.2	< 0.0500	< 0.0500	< 0.0500	< 1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 5.25	< 5.00	< 5.00	< 1
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	--	< 10	< 1.05	< 1.00	< 1.00	< 1
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 5.25	< 5.00	< 5.00	< 1
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 5	< 5	< 2.0	< 2.0	--	< 3	< 3.15	< 3.00	< 3.00	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 10	< 10	--	< 3	< 3.15	< 3.00	< 3.00	< 2
Caprolactam	105-60-2	--	9900	--	--	--	26 *	< 10	--	--	1.64 J	< 10.0	0.833 J	--
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	--	< 10.5	< 10.0	< 10.0	< 1
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	--	< 0.2	< 0.0500	< 0.0500	< 0.0500	< 1
Dibenzofuran	117-84-0	50	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	--	< 0.0500	< 0.0500	< 0.0500	< 1
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 10	< 10	--	< 3	< 3.15	< 3.00	< 3.00	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 10	< 10	--	< 3	< 3.15	< 3.00	< 3.00	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 10	< 10	--	< 3	< 3.15	1.41 J	< 3.00	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 5	< 5	< 10	< 10	--	< 3	< 3.15	< 3.00	< 3.00	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	< 10	< 10	--	--	< 10.5	< 10.0	< 10.0	--
Fluoranthene	206-44-0	50	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.100	< 0.100	< 0.100	< 1
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Hexachlorobutadiene	87-68-3	0.5	--	0.8 J	2 J	2	2.7	< 1.0	--	2.48	0.793 J	2.35 C3J3	4.14	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 10	< 10	--	< 10	< 5.25	< 5.00	< 5.00	< 6
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 2.0	< 2.0	--	< 10	< 5.25	< 5.00	< 5.00	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 10.5	< 10.0	< 10.0	< 1
Naphthalene	621-64-7	10	0.011	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 5	< 2.50	< 2.50	< 2.50	< 1
Nitrobenzene	86-30-6	50	--	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	--	< 10	< 10.5	< 10.0	< 10.0	< 1
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 0.7	< 0.7	< 1.0	< 1.0	--	< 10	< 10.5	< 10.0	< 10.0	< 1
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 0.7	< 0.7	< 10	< 10	--	< 10	< 10.5	< 10.0	< 10.0	< 2
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 1.05	< 1.00	< 1.00	< 1
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 20	< 20	--	< 10	< 1.05	< 1.00	< 1.00	< 3
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10	< 10.5	< 10.0	< 10.0	< 1
Pyrene	129-00-0	50	--	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

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Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	25	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 6	<6	< 7.1	< 1.2	--	--	< 5.0	< 5.0	< 2.0	< 2.0	--
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17 11/10/2009 REG	DB-17 10/23/2012 REG	DB-17 6/11/2013 REG	DB-17 6/11/2014 REG	DB-17 11/2/2018 REG	DB-17 4/23/2020 REG	DB-17 4/28/2021 REG	DB-17 10/6/2021 REG	DB-17A 6/11/2008 REG	DB-17A 10/12/2010 REG	DB-17A 5/11/2011 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.5	< 0.3	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	< 2.5	< 2.50	< 2.50	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1.00	< 1.00	< 1	--	--
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	< 5	< 0.00500	< 0.00500	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 0.5	< 0.3	< 1	< 0.500	< 0.500	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.5	< 0.2	--	--	--	< 0.8	< 0.8	< 0.8
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	< 1	< 1.00	< 1.00	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	< 10	< 5.00	< 5.00	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 0.2	--	< 50.0	< 50.0	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	< 5.00	< 5.00	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	< 10	< 5.00	< 5.00	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	< 50	< 25.0	< 25.0	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	< 10	< 5.00	< 5.00	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	< 10	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	< 0.500	< 0.500	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 0.5	< 0.3	< 5	< 2.50	< 2.50	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	< 0.500	< 0.500	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 0.5	< 0.2	< 5	< 2.50	< 2.50	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.5	< 0.2	< 5	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 0.5	< 0.2	< 2.5	< 1.25	< 1.25	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	< 5	< 2.50	< 2.50	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.5	< 0.4	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	< 5.00	< 5.00	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17 11/10/2009 REG	DB-17 10/23/2012 REG	DB-17 6/11/2013 REG	DB-17 6/11/2014 REG	DB-17 11/2/2018 REG	DB-17 4/23/2020 REG	DB-17 4/28/2021 REG	DB-17 10/6/2021 REG	DB-17A 6/11/2008 REG	DB-17A 10/12/2010 REG	DB-17A 5/11/2011 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 0.3	< 5	< 2.50	< 2.50	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	< 50	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.5	0.6 J	0.349 J	< 0.500	0.508	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	< 5.00	< 5.00	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 0.5	< 0.2	< 5	< 2.50	< 2.50	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	< 5.00	< 5.00	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.5	< 1	< 3	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	< 10.0	< 10.0	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	< 0.400	< 0.400	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 1.00	< 1.00	< 1	--	--
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1.00	< 1.00	< 1	--	--
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5.00	< 5.00	< 1	--	--
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 0.5	< 0.5	< 0.5	< 3	< 10	< 10.0	< 10.0	< 3	--	--
2,4-Dinitrophenol	51-28-5	10	--	< 19	< 10	< 11	< 10	< 15	< 10	< 10.0	< 10.0	< 20	--	--
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 10	< 5.00	< 5.00	< 1	--	--
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5.00	< 5.00	< 1	--	--
2-Chloronaphthalene	91-58-7	10	--	< 2	< 0.4	< 0.4	< 0.4	< 0.4	< 1	< 0.250	< 0.250	< 2	--	--
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1.00	< 1.00	< 1	--	--
2-Methylnaphthalene	91-57-6	--	36	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.250	< 0.250	< 1	--	--
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 1.00	< 1.00	< 1	--	--
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 0.5	< 0.5	< 0.5	< 2	--	< 5.00	< 10.0	< 1	--	--
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 0.5	< 0.5	< 0.5	< 3	< 10	< 1.00	< 10.0	< 1	--	--
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	< 1.00	< 1.00	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 3	< 10	< 10.0	< 10.0	< 2	--	--
3-Nitroaniline	99-09-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 3	--	< 5.00	< 5.00	< 1	--	--
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 8	< 10	< 10.0	< 10.0	< 5	--	--
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10.0	< 10.0	< 1	--	--
4-Chloroaniline	106-47-8	5	--	< 1	< 0.5	< 0.5	< 0.5	< 4	--	< 5.00	< 5.00	< 1	--	--
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10.0	< 10.0	< 2	--	--
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	< 2	--	--
4-Nitroaniline	100-01-6	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.9	--	< 5.00	< 5.00	< 1	--	--
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 11	< 10	< 11	< 10	< 10.0	< 10.0	< 10	--	--
Acenaphthene	83-32-9	20	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--

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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17 11/10/2009 REG	DB-17 10/23/2012 REG	DB-17 6/11/2013 REG	DB-17 6/11/2014 REG	DB-17 11/2/2018 REG	DB-17 4/23/2020 REG	DB-17 4/28/2021 REG	DB-17 10/6/2021 REG	DB-17A 6/11/2008 REG	DB-17A 10/12/2010 REG	DB-17A 5/11/2011 REG
Acenaphthylene	208-96-8	--	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	< 10.0	< 10.0	--	--	--
Anthracene	120-12-7	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	< 10.0	< 10.0	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	< 10.0	< 10.0	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.0500	< 0.0500	< 1	--	--
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5.00	< 5.00	< 1	--	--
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1.00	< 1.00	< 1	--	--
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5.00	< 5.00	< 1	--	--
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 5	< 3	< 3.00	< 3.00	< 2	--	--
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 3	< 3.00	< 3.00	< 2	--	--
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	< 10.0	5.70 J	--	--	--
Carbazole	86-74-8	--	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 10.0	< 10.0	< 1	--	--
Chrysene	218-01-9	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Dibenz(a,h)anthracene	84-74-2	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.0500	< 0.0500	< 1	--	--
Dibenzofuran	117-84-0	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.0500	< 0.0500	< 1	--	--
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 3	< 3.00	< 3.00	< 2	--	--
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 3	< 3.00	< 3.00	< 2	--	--
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 3	< 3.00	< 3.00	< 2	--	--
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 5	< 3	< 3.00	< 3.00	< 2	--	--
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	< 10.0	< 10.0	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.100	< 0.100	< 1	--	--
Fluorene	86-73-7	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1.00	< 1.00	< 1	--	--
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 10	< 5.00	< 5.00	< 5	--	--
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 10	< 5.00	< 5.00	< 1	--	--
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Isophorone	78-59-1	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10.0	< 10.0	< 1	--	--
Naphthalene	621-64-7	10	0.011	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 2.50	< 2.50	< 1	--	--
Nitrobenzene	86-30-6	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10.0	< 10.0	< 1	--	--
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1	< 0.5	< 0.5	< 0.5	< 0.7	< 10	< 10.0	< 10.0	< 1	--	--
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 2	< 0.5	< 0.5	< 0.5	< 0.7	< 10	< 10.0	< 10.0	< 2	--	--
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 1.00	< 1.00	< 1	--	--
Pentachlorophenol	87-86-5	1	--	< 3	< 1	< 1	< 1	< 1	< 10	< 1.00	< 1.00	< 3	--	--
Phenanthrene	85-01-8	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Phenol	108-95-2	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10.0	< 10.0	< 1	--	--
Pyrene	129-00-0	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1	--	--
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17 11/10/2009 REG	DB-17 10/23/2012 REG	DB-17 6/11/2013 REG	DB-17 6/11/2014 REG	DB-17 11/2/2018 REG	DB-17 4/23/2020 REG	DB-17 4/28/2021 REG	DB-17 10/6/2021 REG	DB-17A 6/11/2008 REG	DB-17A 10/12/2010 REG	DB-17A 5/11/2011 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	< 6.9	--	--	--	--	--	--	--	7.2 J	--	--
Lead (Dissolved)	7439-92-1	25	--	--	< 5.1	< 5.1	< 4.7	< 7.1	< 5.0	< 2.0	< 2.0	--	--	--
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17A 11/10/2011 REG	DB-17A 6/20/2019 REG	OR-2 8/22/2007 REG	OR-2 11/28/2007 REG	OR-2 6/12/2008 REG	OR-2 11/20/2008 REG	OR-2 7/15/2009 REG	OR-2 11/11/2009 REG	OR-2 5/26/2010 REG	OR-2 10/12/2010 REG	OR-2 5/11/2011 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	< 1.0	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	< 1.0	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	< 1.0	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	< 1.0	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	< 0.8	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	< 5.0	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	< 5.0	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	< 5.0	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	< 5.0	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	< 1.0	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	--	< 1.0	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 0.8	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 0.8	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	--	< 1.0	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	--	< 1.0	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	< 1.0	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	< 1.0	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	< 1.0	--	--	--	--	--	--	--	--	--

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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17A 11/10/2011 REG	DB-17A 6/20/2019 REG	OR-2 8/22/2007 REG	OR-2 11/28/2007 REG	OR-2 6/12/2008 REG	OR-2 11/20/2008 REG	OR-2 7/15/2009 REG	OR-2 11/11/2009 REG	OR-2 5/26/2010 REG	OR-2 10/12/2010 REG	OR-2 5/11/2011 REG
Methyl acetate	79-20-9	--	20000	--	< 5.0	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	< 1.0	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 1.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 1.0	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	< 1.0	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	< 1.0	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	0.60 J	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 0.7	< 1.0	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	--	< 1.0	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 1.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 0.8	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	< 10	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	< 50	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	< 10	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 10	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 20	< 21	< 20	< 19	< 19	< 20	< 20	< 10	< 10	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 2.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 2.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloroaniline	106-47-8	5	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Nitroaniline	100-01-6	5	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	100-02-7	1	--	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	83-32-9	20	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17A 11/10/2011 REG	DB-17A 6/20/2019 REG	OR-2 8/22/2007 REG	OR-2 11/28/2007 REG	OR-2 6/12/2008 REG	OR-2 11/20/2008 REG	OR-2 7/15/2009 REG	OR-2 11/11/2009 REG	OR-2 5/26/2010 REG	OR-2 10/12/2010 REG	OR-2 5/11/2011 REG
Acenaphthylene	208-96-8	--	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetophenone	98-86-2	--	1900	--	< 10	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Atrazine	1912-24-9	--	0.3	--	< 2.0	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	< 10	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 2.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2.0	< 2	< 2	< 2	3 J	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	< 10	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	218-01-9	0.002	--	< 0.1	< 2.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	117-84-0	50	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethylphthalate	53-70-3	50	0.025	< 2	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	< 10	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	86-73-7	50	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	0.5	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 2.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 2.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	78-59-1	50	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	621-64-7	10	0.011	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	86-30-6	50	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	87-86-5	1	--	< 1	< 20	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phenanthrene	85-01-8	50	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	108-95-2	1	--	< 0.5	< 10	< 1	< 1	< 1	3 J	< 1	< 1	< 1	< 1	< 1
Pyrene	129-00-0	50	--	< 0.1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DB-17A 11/10/2011 REG	DB-17A 6/20/2019 REG	OR-2 8/22/2007 REG	OR-2 11/28/2007 REG	OR-2 6/12/2008 REG	OR-2 11/20/2008 REG	OR-2 7/15/2009 REG	OR-2 11/11/2009 REG	OR-2 5/26/2010 REG	OR-2 10/12/2010 REG	OR-2 5/11/2011 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	< 6.9	< 6.9	< 6.9	< 6.9	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 2.2	< 1.2	--	--	--	--	< 6.9	< 6.9	< 6.9	< 6.9	< 6.9
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/10/2011 REG	OR-2 7/18/2012 REG	OR-2 10/23/2012 REG	OR-2 6/11/2013 FD	OR-2 6/11/2013 REG	OR-2 11/14/2013 REG	OR-2 6/11/2014 FD	OR-2 6/11/2014 REG	OR-2 11/11/2014 FD	OR-2 11/11/2014 REG	OR-2 6/19/2015 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/10/2011 REG	OR-2 7/18/2012 REG	OR-2 10/23/2012 REG	OR-2 6/11/2013 FD	OR-2 6/11/2013 REG	OR-2 11/14/2013 REG	OR-2 6/11/2014 FD	OR-2 6/11/2014 REG	OR-2 11/11/2014 FD	OR-2 11/11/2014 REG	OR-2 6/19/2015 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Appendix B-4
OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/10/2011 REG	OR-2 7/18/2012 REG	OR-2 10/23/2012 REG	OR-2 6/11/2013 FD	OR-2 6/11/2013 REG	OR-2 11/14/2013 REG	OR-2 6/11/2014 FD	OR-2 6/11/2014 REG	OR-2 11/11/2014 FD	OR-2 11/11/2014 REG	OR-2 6/19/2015 REG
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	2 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	117-84-0	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	621-64-7	10	0.011	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1
Pyrene	129-00-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/10/2011 REG	OR-2 7/18/2012 REG	OR-2 10/23/2012 REG	OR-2 6/11/2013 FD	OR-2 6/11/2013 REG	OR-2 11/14/2013 REG	OR-2 6/11/2014 FD	OR-2 6/11/2014 REG	OR-2 11/11/2014 FD	OR-2 11/11/2014 REG	OR-2 6/19/2015 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	<2.2	< 5.1	< 5.1	< 5.1	< 5.1	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/13/2015 REG	OR-2 6/14/2016 REG	OR-2 11/15/2016 REG	OR-2 6/27/2017 REG	OR-2 11/1/2017 REG	OR-2 6/13/2018 REG	OR-2 11/5/2018 REG	OR-2 6/21/2019 REG	OR-2 10/30/2019 REG	OR-2 4/23/2020 REG	OR-2 10/12/2020 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 1	< 0.500
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,1,2-Trichloroethane	79-00-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
1,1-Dichloroethane	75-34-3	5	--	0.8 J	< 0.5	< 0.5	< 0.5	< 0.5	0.9 J	0.2 J	0.84 J	0.46 J	0.764 J	0.326 J
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	< 2.5	< 2.50
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 1.0	< 1.0	< 1	< 1.00
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	< 1.0	< 1.0	< 5	< 0.00500
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,2-Dichloroethane	107-06-2	0.6	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 1	< 0.500
1,2-Dichloroethene	540-59-0	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	--	--	--	--
1,2-Dichloropropane	78-87-5	1	--	1	< 0.5	< 0.5	< 0.5	< 0.5	0.9 J	0.2 J	0.90 J	0.41 J	0.847 J	< 0.500
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	< 1	< 1.00
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 10	< 5.00
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 0.2	--	--	--	< 50.0
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	< 5.0	< 5.0	--	< 5.00
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	< 5.0	< 5.0	< 10	< 5.00
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 50	< 25.0
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	< 10	< 5.00
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	< 10	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	< 1.0	< 1.0	--	< 0.500
Bromodichloromethane	75-27-4	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Bromoform	75-25-2	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 5	< 2.50
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--	< 0.500
Carbon Tetrachloride	56-23-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Chlorobenzene	108-90-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Chloroethane	75-00-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 5	< 2.50
Chloroform	67-66-3	7	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 5	< 0.500
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 2.5	< 1.25
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	0.217 J	< 0.500
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--
Dibromochloromethane	124-48-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	< 1.0	< 1.0	< 5	< 2.50
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Ethylbenzene	100-41-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 1.0	< 1.0	< 1	< 0.500
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	< 5.00
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/13/2015 REG	OR-2 6/14/2016 REG	OR-2 11/15/2016 REG	OR-2 6/27/2017 REG	OR-2 11/1/2017 REG	OR-2 6/13/2018 REG	OR-2 11/5/2018 REG	OR-2 6/21/2019 REG	OR-2 10/30/2019 REG	OR-2 4/23/2020 REG	OR-2 10/12/2020 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	< 5.0	< 5.0	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 5	< 2.50
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	< 50	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Toluene	108-88-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	< 5.00
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	0.321 J	< 0.500
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 5	< 2.50
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	< 5.00
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Xylene (total)	1330-20-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	--	--	< 3	< 1.50
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	< 50	< 50	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	< 10	< 10	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	--	< 1.00
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 1.00
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 5.00
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 3	< 3	< 10	< 10	< 10	< 10.0
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 11	< 14	< 15	< 20	< 20	< 10	< 10.0
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0	< 10	< 5.00
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 2.0	< 2.0	< 10	< 5.00
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 10	< 10	< 1	< 0.250
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 1.00
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 0.250
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	--	< 1.00
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 2	< 2	< 10	< 10	--	< 5.00
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 3	< 3	< 10	< 10	< 10	< 1.00
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	< 1.00
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 3	< 3	< 10	< 10	< 10	< 10.0
3-Nitroaniline	99-09-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 3	< 3	< 10	< 10	--	< 5.00
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 6	< 8	< 8	< 20	< 20	< 10	< 10.0
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
4-Chloroaniline	106-47-8	5	--	< 2	< 2	< 2	< 2	< 2	< 4	< 4	< 10	< 10	--	< 5.00
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	--	--
4-Nitroaniline	100-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.9	< 0.9	< 10	< 10	--	< 5.00
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 11	< 10	< 11	< 20	< 20	< 10	< 10.0
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/13/2015 REG	OR-2 6/14/2016 REG	OR-2 11/15/2016 REG	OR-2 6/27/2017 REG	OR-2 11/1/2017 REG	OR-2 6/13/2018 REG	OR-2 11/5/2018 REG	OR-2 6/21/2019 REG	OR-2 10/30/2019 REG	OR-2 4/23/2020 REG	OR-2 10/12/2020 REG
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	< 2.0	< 2.0	--	< 10.0
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	0.5 J	< 0.1	< 0.1	< 1.0	< 1.0	< 1	< 0.0500
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	< 0.1	< 0.1	0.5 J	< 0.1	< 0.1	< 1.0	< 1.0	< 0.2	< 0.0500
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	0.9	< 0.1	< 0.1	< 2.0	< 2.0	< 1	< 0.0500
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	< 0.1	< 0.1	0.6	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	1	< 0.1	< 0.1	< 1.0	< 1.0	< 1	< 0.0500
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 5.00
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 1.0	< 1.0	< 10	< 1.00
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 5.00
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 2.0	< 2.0	< 3	< 3.00
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	2.9 J	< 10	--	< 10.0
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	--	< 10.0
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	1	< 0.1	< 0.1	< 2.0	< 2.0	< 1	< 0.0500
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1	< 1.0	< 1.0	< 0.2	< 0.0500
Dibenzofuran	117-84-0	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	--	< 0.0500
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 10	< 10	< 3	< 3.00
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
Fluoranthene	206-44-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	0.1 J	< 0.1	< 0.1	< 10	< 10	< 1	< 0.100
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 1	< 0.0500
Hexachlorobutadiene	87-68-3	0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 1.0	< 1.0	< 1	< 1.00
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 6	< 5	< 5	< 10	< 10	< 10	< 5.00
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0	< 10	< 5.00
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	0.6	< 0.1	< 0.1	< 2.0	< 2.0	< 1	< 0.0500
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
Naphthalene	621-64-7	10	0.011	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 5	< 2.50
Nitrobenzene	86-30-6	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 1.0	< 1.0	< 10	< 10.0
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.7	< 0.7	< 1.0	< 1.0	< 10	< 10.0
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.7	< 0.7	< 10	< 10	< 10	< 10.0
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 1.00
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 20	< 20	< 10	< 1.00
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
Pyrene	129-00-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 11/13/2015 REG	OR-2 6/14/2016 REG	OR-2 11/15/2016 REG	OR-2 6/27/2017 REG	OR-2 11/1/2017 REG	OR-2 6/13/2018 REG	OR-2 11/5/2018 REG	OR-2 6/21/2019 REG	OR-2 10/30/2019 REG	OR-2 4/23/2020 REG	OR-2 10/12/2020 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	< 1.2	--	--
Lead (Dissolved)	7439-92-1	25	--	< 5.1	< 5.1	< 6.2	< 6	< 6	< 6	< 7.1	< 1.2	--	< 5.0	< 5.0
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-2 4/26/2021 REG	OR-2 10/7/2021 FD	OR-2 10/7/2021 REG	OR-3 8/22/2007 REG	OR-3 11/29/2007 REG	OR-3 6/12/2008 REG	OR-3 11/20/2008 REG	OR-3 7/15/2009 REG	OR-3 11/11/2009 REG	OR-3 5/26/2010 REG	OR-3 10/12/2010 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	0.340 J	0.238 J	0.262 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	< 2.50	< 2.50	< 2.50	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	95-63-6	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 0.00500	< 0.00500	< 0.00500	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	--	--	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dichloropropane	78-87-5	1	--	0.257 J	0.195 J	0.213 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	142-28-9	5	--	< 1.00	< 1.00	< 1.00	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 50.0	< 50.0	< 50.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	< 0.500	0.310 J	0.330 J	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	0.778 J	< 5.00	< 5.00	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	< 25.0	< 25.0	< 25.0	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.500	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1.25	< 1.25	< 1.25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 2.50	< 2.50	< 2.50	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

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Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2.50	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.500	< 0.500	< 0.500	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 0.500	< 0.500	< 0.500	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2.50	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 1.50	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	1	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	5	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	50	--	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 10.0	< 10.0	< 10.0	< 20	< 21	< 19	< 19	< 20	< 20	< 10	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 5.00	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	91-58-7	10	--	< 0.250	< 0.250	< 0.250	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	--	36	< 0.250	0.179 J	0.174 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 5.00	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1.00	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3 & 4-Methylphenol	65794-96-9			< 1.00	< 1.00	< 1.00	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 10.0	0.394 J	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 10.0	< 10.0	< 10.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloroaniline	106-47-8	5	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	--	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Nitroaniline	100-01-6	5	--	< 5.00	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	100-02-7	1	--	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	83-32-9	20	--	< 0.0500	0.341	0.294	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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Acenaphthylene	208-96-8	--	--	< 0.0500	0.144	0.112	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetophenone	98-86-2	--	1900	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 0.0500	0.0918	0.0703	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Atrazine	1912-24-9	--	0.3	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 0.0500	0.0537	0.0413 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	50-32-8	--	0.025	< 0.0500	0.0509	0.0353 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.0500	0.0672	0.0586	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.0500	0.0508	0.0477 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.0500	0.0257 J	0.0202 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 3.00	0.951 J	1.36 J	< 2	< 2	< 2	4 J	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	< 10.0	< 10.0	1.37 J	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	218-01-9	0.002	--	< 0.0500	0.063	0.0511	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	117-84-0	50	--	< 0.0500	0.0196 J	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethylphthalate	53-70-3	50	0.025	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	0.0271 J	0.122	0.109	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	86-73-7	50	--	< 0.0500	0.191	0.171	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	0.5	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.0500	0.0436 J	0.0388 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	78-59-1	50	--	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	621-64-7	10	0.011	< 2.50	0.276 C3J	0.304 C3J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	86-30-6	50	--	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
p-Chloro-m-cresol	59-50-7	1	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	87-86-5	1	--	< 1.00	< 1.00	< 1.00	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phenanthrene	85-01-8	50	--	0.0240 J	0.445	0.372	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	108-95-2	1	--	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	5 J	< 1	< 1	< 1	< 1
Pyrene	129-00-0	50	--	0.0192 J	0.173	0.15	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

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Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	< 6.9	< 6.9	< 6.9	< 6.9	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 2.0	< 2.0	< 2.0	--	--	--	--	< 6.9	< 6.9	< 6.9	< 6.9
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
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Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 5/11/2011 REG	OR-3 11/10/2011 FD	OR-3 11/10/2011 REG	OR-3 7/18/2012 REG	OR-3 10/23/2012 FD	OR-3 10/23/2012 REG	OR-3 6/11/2013 REG	OR-3 11/14/2013 REG	OR-3 6/11/2014 REG	OR-3 11/11/2014 REG	OR-3 6/19/2015 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

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OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 5/11/2011 REG	OR-3 11/10/2011 FD	OR-3 11/10/2011 REG	OR-3 7/18/2012 REG	OR-3 10/23/2012 FD	OR-3 10/23/2012 REG	OR-3 6/11/2013 REG	OR-3 11/14/2013 REG	OR-3 6/11/2014 REG	OR-3 11/11/2014 REG	OR-3 6/19/2015 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 2	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11	< 10
Acenaphthene	83-32-9	20	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 5/11/2011 REG	OR-3 11/10/2011 FD	OR-3 11/10/2011 REG	OR-3 7/18/2012 REG	OR-3 10/23/2012 FD	OR-3 10/23/2012 REG	OR-3 6/11/2013 REG	OR-3 11/14/2013 REG	OR-3 6/11/2014 REG	OR-3 11/11/2014 REG	OR-3 6/19/2015 REG
Acenaphthylene	208-96-8	--	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1 J
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3 J
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5 J
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3 J
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2 J
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3 J
Dibenz(a,h)anthracene	84-74-2	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	117-84-0	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 0.1	0.2 J	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1	0.2 J	0.6
Fluorene	86-73-7	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3 J
Isophorone	78-59-1	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	621-64-7	10	0.011	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2 J
Phenol	108-95-2	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	129-00-0	50	--	< 1	< 0.1	0.1 J	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1	0.2 J	0.5 J
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 5/11/2011 REG	OR-3 11/10/2011 FD	OR-3 11/10/2011 REG	OR-3 7/18/2012 REG	OR-3 10/23/2012 FD	OR-3 10/23/2012 REG	OR-3 6/11/2013 REG	OR-3 11/14/2013 REG	OR-3 6/11/2014 REG	OR-3 11/11/2014 REG	OR-3 6/19/2015 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 6.9	< 2.2	< 2.2	< 5.1	< 5.1	< 5.1	< 5.1	< 4.7	< 4.7	< 4.7	< 4.7
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 6/14/2016 FD	OR-3 6/14/2016 REG	OR-3 6/28/2017 REG	OR-3 11/1/2017 REG	OR-3 6/14/2018 REG	OR-3 11/5/2018 FD	OR-3 11/5/2018 REG	OR-3 6/21/2019 REG	OR-3 10/30/2019 REG	OR-3 4/23/2020 REG	OR-3 10/13/2020 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,1,1-Trichloroethane	71-55-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.3	< 1.0	< 1.0	< 1	< 0.500
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,1,2-Trichloroethane	79-00-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
1,1-Dichloroethane	75-34-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	< 2.5	< 2.50
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1	< 1.00
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	< 1.0	< 1.0	< 5	< 0.00500
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,2-Dichloroethane	107-06-2	0.6	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.3	< 1.0	< 1.0	< 1	< 0.500
1,2-Dichloroethene	540-59-0	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	--	--	--	--
1,2-Dichloropropane	78-87-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
1,3-Dichlorobenzene	541-73-1	3	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	< 1	< 1.00
1,4-Dichlorobenzene	106-46-7	3	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 10	< 5.00
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 0.2	< 0.2	--	--	--	< 50.0
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	< 5.0	< 5.0	--	< 5.00
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	< 5.0	< 5.0	< 10	< 5.00
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 50	< 25.0
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	< 10	< 5.00
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	< 10	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	< 1.0	< 1.0	--	< 0.500
Bromodichloromethane	75-27-4	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Bromoform	75-25-2	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.3	< 1.0	< 1.0	< 5	< 2.50
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--	< 0.500
Carbon Tetrachloride	56-23-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Chlorobenzene	108-90-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Chloroethane	75-00-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 5	< 2.50
Chloroform	67-66-3	7	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 5	< 0.500
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 2.5	< 1.25
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--
Dibromochloromethane	124-48-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	< 1.0	< 1.0	< 5	< 2.50
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Ethylbenzene	100-41-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 0.4	< 1.0	< 1.0	< 1	< 0.500
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	< 5.00
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 6/14/2016 FD	OR-3 6/14/2016 REG	OR-3 6/28/2017 REG	OR-3 11/1/2017 REG	OR-3 6/14/2018 REG	OR-3 11/5/2018 FD	OR-3 11/5/2018 REG	OR-3 6/21/2019 REG	OR-3 10/30/2019 REG	OR-3 4/23/2020 REG	OR-3 10/13/2020 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	< 5.0	< 5.0	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 0.5	< 0.5	< 0.3	< 0.3	< 1.0	< 1.0	< 5	< 2.50
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	< 50	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	< 1	< 0.500
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Toluene	108-88-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1	< 0.500
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	< 5.00
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 5	< 2.50
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	< 5.00
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
Xylene (total)	1330-20-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	--	--	< 3	< 1.50
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	< 50	< 50	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	< 10	< 10	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 1.00
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 1.00
2,4-Dichlorophenol	120-83-2	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 5.00
2,4-Dimethylphenol	105-67-9	50	--	< 0.6	< 0.5	< 0.5	< 0.5	< 3	< 3	< 3	< 10	< 10	< 10	< 10.0
2,4-Dinitrophenol	51-28-5	10	--	< 11	< 10	< 10	< 10	< 14	< 14	< 15	< 20	< 20	< 10	< 10.0
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0	< 10	< 5.00
2,6-Dinitrotoluene	606-20-2	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 2.0	< 10	< 5.00
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 10	< 10	< 1	< 0.250
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 1.00
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	--	< 0.250
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.6	< 0.5	2	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 1.00
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 2	< 2	< 2	< 10	< 10	--	< 5.00
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 3	< 3	< 3	< 10	< 10	< 10	< 1.00
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	< 1.00
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 10	< 10	< 10	< 10.0
3-Nitroaniline	99-09-2	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 3	< 3	< 3	< 10	< 10	--	< 5.00
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 6	< 5	< 5	< 5	< 8	< 8	< 8	< 20	< 20	< 10	< 10.0
4-Bromophenylphenylether	101-55-3	--	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
4-Chloroaniline	106-47-8	5	--	< 2	< 2	< 2	< 2	< 4	< 4	< 4	< 10	< 10	--	< 5.00
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--	--
4-Nitroaniline	100-01-6	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 0.9	< 10	< 10	--	< 5.00
4-Nitrophenol	100-02-7	1	--	< 11	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10.0
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 6/14/2016 FD	OR-3 6/14/2016 REG	OR-3 6/28/2017 REG	OR-3 11/1/2017 REG	OR-3 6/14/2018 REG	OR-3 11/5/2018 FD	OR-3 11/5/2018 REG	OR-3 6/21/2019 REG	OR-3 10/30/2019 REG	OR-3 4/23/2020 REG	OR-3 10/13/2020 REG
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	< 2.0	< 2.0	--	< 10.0
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
Benzo(a)anthracene	56-55-3	0.002	--	0.2 J	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 1	< 0.0500
Benzo(a)pyrene	50-32-8	--	0.025	0.2 J	0.4 J	0.2 J	0.2 J	< 0.1	0.2 J	0.2 J	< 1.0	< 1.0	< 0.2	0.0188 JJ3
Benzo(b)fluoranthene	205-99-2	0.002	--	0.4 J	0.7	0.3 J	0.3 J	0.1 J	0.3 J	0.2 J	< 2.0	< 2.0	< 1	0.0354 JJ3
Benzo(g,h,i)perylene	191-24-2	--	--	0.2 J	0.4 J	0.2 J	0.2 J	< 0.1	0.2 J	0.1 J	< 10	< 10	< 1	0.0302 JJ3
Benzo(k)fluoranthene	207-08-9	0.002	--	0.2 J	0.2 J	0.1 J	0.1 J	< 0.1	0.1 J	< 0.1	< 1.0	< 1.0	< 1	< 0.0500
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 5.00
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 10	< 1.00
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 5.00
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 2.0	< 2.0	< 3	< 3.00
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
Carbazole	86-74-8	--	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 10.0
Chrysene	218-01-9	0.002	--	0.3 J	0.5	0.2 J	0.2 J	< 0.1	0.2 J	0.1 J	< 2.0	< 2.0	< 1	0.0211 JJ3
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 0.2	< 0.0500
Dibenzofuran	117-84-0	50	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--	< 0.0500
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3	< 3.00
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 10	< 10	< 3	< 3.00
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	< 10	< 10	--	< 10.0
Fluoranthene	206-44-0	50	--	0.6	1	0.4 J	0.3 J	0.1 J	0.3 J	0.3 J	< 10	< 10	< 1	0.0439 JJ3
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1	< 0.0500
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 1	< 0.0500
Hexachlorobutadiene	87-68-3	0.5	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1	< 1.00
Hexachlorocyclopentadiene	77-47-4	5	--	< 6	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 5.00
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0	< 10	< 5.00
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	0.2 J	0.3 J	0.2 J	0.2 J	< 0.1	< 0.1	0.1 J	< 2.0	< 2.0	< 1	0.0301 JJ3
Isophorone	78-59-1	50	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
Naphthalene	621-64-7	10	0.011	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 5	< 2.50
Nitrobenzene	86-30-6	50	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 10	< 10.0
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 0.7	< 1.0	< 1.0	< 10	< 10.0
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 0.7	< 10	< 10	< 10	< 10.0
p-Chloro-m-cresol	59-50-7	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 1.00
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 20	< 20	< 10	< 1.00
Phenanthrene	85-01-8	50	--	0.3 J	0.5 J	0.2 J	0.1 J	< 0.1	0.1 J	< 0.1	< 10	< 10	< 1	0.0205 JJ3
Phenol	108-95-2	1	--	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
Pyrene	129-00-0	50	--	0.5 J	0.7	0.3 J	0.3 J	0.1 J	0.2 J	0.3 J	< 10	< 10	< 1	0.0349 JJ3
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 6/14/2016 FD	OR-3 6/14/2016 REG	OR-3 6/28/2017 REG	OR-3 11/1/2017 REG	OR-3 6/14/2018 REG	OR-3 11/5/2018 FD	OR-3 11/5/2018 REG	OR-3 6/21/2019 REG	OR-3 10/30/2019 REG	OR-3 4/23/2020 REG	OR-3 10/13/2020 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	< 1.2	--	--
Lead (Dissolved)	7439-92-1	25	--	< 5.1	< 5.1	< 6	< 6	< 6	< 7.1	< 7.1	< 1.2	--	< 5.0	< 5.0
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
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Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 4/27/2021 REG	OR-3 10/7/2021 REG	OS-2 8/21/2007 REG	OS-2 11/29/2007 REG	OS-2 6/12/2008 REG	OS-2 11/20/2008 REG	OS-2 7/15/2009 REG	OS-2 11/11/2009 REG	OS-2 5/26/2010 REG	OS-2 10/12/2010 FD	OS-2 10/12/2010 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	< 2.50	< 2.50	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	95-63-6	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 0.00500	< 0.00500	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	--	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dichloropropane	78-87-5	1	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	142-28-9	5	--	< 1.00	< 1.00	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 5.00	< 5.00	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 50.0	< 50.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	< 5.00	< 5.00	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	0.535	< 0.500	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	< 5.00	< 5.00	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	< 25.0	< 25.0	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	< 5.00	< 5.00	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	< 0.500	0.110 J	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1.25	< 1.25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 2.50	< 2.50	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	< 5.00	< 5.00	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
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Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 4/27/2021 REG	OR-3 10/7/2021 REG	OS-2 8/21/2007 REG	OS-2 11/29/2007 REG	OS-2 6/12/2008 REG	OS-2 11/20/2008 REG	OS-2 7/15/2009 REG	OS-2 11/11/2009 REG	OS-2 5/26/2010 REG	OS-2 10/12/2010 FD	OS-2 10/12/2010 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.500	< 0.500	--	< 0.5	59	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 0.500	< 0.500	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	< 0.500	< 0.500	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	< 5.00	< 5.00	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	< 5.00	< 5.00	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	< 10.0	< 10.0	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	1	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	50	--	< 10.0	< 10.0	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 10.0	< 10.0	< 20	< 20	< 20	< 19	< 20	< 20	< 10	< 10	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	91-58-7	10	--	< 0.250	< 0.250	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	--	36	< 0.250	< 0.250	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3 & 4-Methylphenol	65794-96-9			< 1.00	< 1.00	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 10.0	< 10.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloroaniline	106-47-8	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Nitroaniline	100-01-6	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	100-02-7	1	--	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	83-32-9	20	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 4/27/2021 REG	OR-3 10/7/2021 REG	OS-2 8/21/2007 REG	OS-2 11/29/2007 REG	OS-2 6/12/2008 REG	OS-2 11/20/2008 REG	OS-2 7/15/2009 REG	OS-2 11/11/2009 REG	OS-2 5/26/2010 REG	OS-2 10/12/2010 FD	OS-2 10/12/2010 REG
Acenaphthylene	208-96-8	--	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetophenone	98-86-2	--	1900	< 10.0	< 10.0	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Atrazine	1912-24-9	--	0.3	< 10.0	< 10.0	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	< 10.0	< 10.0	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	0.0500 J	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	50-32-8	--	0.025	0.0622	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	205-99-2	0.002	--	0.1	0.0203 JJ3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	0.0692	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	0.0404 J	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	1.94 J	1.02 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	< 10.0	0.649 J	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	218-01-9	0.002	--	0.0724	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	117-84-0	50	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethylphthalate	53-70-3	50	0.025	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	< 10.0	< 10.0	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	0.154	< 0.100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	86-73-7	50	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	0.5	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	0.0698	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	78-59-1	50	--	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	621-64-7	10	0.011	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	86-30-6	50	--	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
p-Chloro-m-cresol	59-50-7	1	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	87-86-5	1	--	< 1.00	< 1.00	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phenanthrene	85-01-8	50	--	0.0681	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	108-95-2	1	--	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pyrene	129-00-0	50	--	0.129	0.0202 JJ3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OR-3 4/27/2021 REG	OR-3 10/7/2021 REG	OS-2 8/21/2007 REG	OS-2 11/29/2007 REG	OS-2 6/12/2008 REG	OS-2 11/20/2008 REG	OS-2 7/15/2009 REG	OS-2 11/11/2009 REG	OS-2 5/26/2010 REG	OS-2 10/12/2010 FD	OS-2 10/12/2010 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	< 6.9	< 6.9	< 6.9	< 6.9	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 2.0	< 2.0	--	--	--	--	< 6.9	< 6.9	< 6.9	< 6.9	< 6.9
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 5/11/2011 REG	OS-2 11/10/2011 REG	OS-2 7/18/2012 FD	OS-2 7/18/2012 REG	OS-2 10/23/2012 REG	OS-2 6/11/2013 REG	OS-2 11/14/2013 REG	OS-2 6/11/2014 REG	OS-2 11/11/2014 REG	OS-2 6/19/2015 REG	OS-2 11/13/2015 FD
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 5/11/2011 REG	OS-2 11/10/2011 REG	OS-2 7/18/2012 FD	OS-2 7/18/2012 REG	OS-2 10/23/2012 REG	OS-2 6/11/2013 REG	OS-2 11/14/2013 REG	OS-2 6/11/2014 REG	OS-2 11/11/2014 REG	OS-2 6/19/2015 REG	OS-2 11/13/2015 FD
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 11	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 2	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
4-Chloroaniline	106-47-8	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
4-Nitroaniline	100-01-6	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 11	< 10
Acenaphthene	83-32-9	20	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 5/11/2011 REG	OS-2 11/10/2011 REG	OS-2 7/18/2012 FD	OS-2 7/18/2012 REG	OS-2 10/23/2012 REG	OS-2 6/11/2013 REG	OS-2 11/14/2013 REG	OS-2 6/11/2014 REG	OS-2 11/11/2014 REG	OS-2 6/19/2015 REG	OS-2 11/13/2015 FD
Acenaphthylene	208-96-8	--	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
Chrysene	218-01-9	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	84-74-2	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	117-84-0	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	86-73-7	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	78-59-1	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
Naphthalene	621-64-7	10	0.011	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
Pentachlorophenol	87-86-5	1	--	< 3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	108-95-2	1	--	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
Pyrene	129-00-0	50	--	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 5/11/2011 REG	OS-2 11/10/2011 REG	OS-2 7/18/2012 FD	OS-2 7/18/2012 REG	OS-2 10/23/2012 REG	OS-2 6/11/2013 REG	OS-2 11/14/2013 REG	OS-2 6/11/2014 REG	OS-2 11/11/2014 REG	OS-2 6/19/2015 REG	OS-2 11/13/2015 FD
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 6.9	< 2.2	< 5.1	< 5.1	< 5.1	< 5.1	< 4.7	< 4.7	< 4.7	< 4.7	<5.1
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 11/13/2015 REG	OS-2 6/14/2016 REG	OS-2 11/15/2016 REG	OS-2 6/27/2017 REG	OS-2 11/1/2017 FD	OS-2 11/1/2017 REG	OS-2 6/13/2018 REG	OS-2 11/1/2018 REG	OS-2 6/21/2019 REG	OS-2 10/30/2019 REG	OS-2 4/23/2020 FD
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	< 1
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 1
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1
1,1-Dichloroethane	75-34-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	< 1
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	< 2.5
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	< 1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 5
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 1
1,2-Dichloroethene	540-59-0	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	--	--	--
1,2-Dichloropropane	78-87-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	< 1
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	< 1
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 10
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.2	--	--	--
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	< 1
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 10
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 50
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	< 1
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--
Bromodichloromethane	75-27-4	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Bromoform	75-25-2	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 5
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--
Carbon Tetrachloride	56-23-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Chlorobenzene	108-90-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Chloroethane	75-00-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 5
Chloroform	67-66-3	7	--	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 5
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 2.5
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--
Dibromochloromethane	124-48-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	< 1
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 5
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	< 1
Ethylbenzene	100-41-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 1.0	< 1.0	< 1
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 11/13/2015 REG	OS-2 6/14/2016 REG	OS-2 11/15/2016 REG	OS-2 6/27/2017 REG	OS-2 11/1/2017 FD	OS-2 11/1/2017 REG	OS-2 6/13/2018 REG	OS-2 11/1/2018 REG	OS-2 6/21/2019 REG	OS-2 10/30/2019 REG	OS-2 4/23/2020 FD
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	< 5.0	< 5.0	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0	< 5
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	< 1
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	< 50
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	< 1
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	< 1
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	< 1
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	< 1
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	< 1
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	< 1
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Toluene	108-88-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 5
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 1
Xylene (total)	1330-20-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	--	--	< 3
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	< 10	< 10	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	< 50	< 50	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	< 10	< 10	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10	< 10	< 10
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 11	< 10	< 11	< 10	< 11	< 14	< 15	< 20	< 20	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0	< 10
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 2.0	< 10
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 10	< 10	< 1
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	--
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2	< 10	< 10	--
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10	< 10	< 10
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 3	< 3	< 10	< 10	< 10
3-Nitroaniline	99-09-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10	< 10	--
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 8	< 8	< 20	< 20	< 10
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
4-Chloroaniline	106-47-8	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 4	< 4	< 10	< 10	--
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--
4-Nitroaniline	100-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 10	< 10	--
4-Nitrophenol	100-02-7	1	--	< 10	< 11	< 10	< 11	< 10	< 11	< 10	< 10	< 20	< 20	< 10
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 11/13/2015 REG	OS-2 6/14/2016 REG	OS-2 11/15/2016 REG	OS-2 6/27/2017 REG	OS-2 11/1/2017 FD	OS-2 11/1/2017 REG	OS-2 6/13/2018 REG	OS-2 11/1/2018 REG	OS-2 6/21/2019 REG	OS-2 10/30/2019 REG	OS-2 4/23/2020 FD
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	< 10	< 10	--
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	< 2.0	< 2.0	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	< 10	< 10	--
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 1
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 0.2
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 10
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 2.0	< 2.0	< 3
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	< 10	< 10	--
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0	< 1
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 0.2
Dibenzofuran	117-84-0	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	--
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 3
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 10	< 10	< 3
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	< 10	< 10	--
Fluoranthene	206-44-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 1
Hexachlorobutadiene	87-68-3	0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0	< 10
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0	< 1
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
Naphthalene	621-64-7	10	0.011	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 5
Nitrobenzene	86-30-6	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 10
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 1.0	< 1.0	< 10
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 10	< 10	< 10
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 20	< 20	< 10
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
Pyrene	129-00-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 11/13/2015 REG	OS-2 6/14/2016 REG	OS-2 11/15/2016 REG	OS-2 6/27/2017 REG	OS-2 11/1/2017 FD	OS-2 11/1/2017 REG	OS-2 6/13/2018 REG	OS-2 11/1/2018 REG	OS-2 6/21/2019 REG	OS-2 10/30/2019 REG	OS-2 4/23/2020 FD
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	0.73 J	--
Lead (Dissolved)	7439-92-1	25	--	<5.1	< 6.2	< 6	< 6	< 6	< 6	< 6	< 7.1	< 1.2	--	< 5.0
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 4/23/2020 REG	OS-2 10/12/2020 FD	OS-2 10/12/2020 REG	OS-2 4/26/2021 FD	OS-2 4/26/2021 REG	OS-2 10/7/2021 REG	OS-3 8/21/2007 REG	OS-3 11/29/2007 REG	OS-3 6/12/2008 REG	OS-3 11/20/2008 REG	OS-3 7/15/2009 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	< 2.5	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
1,2,4-Trimethylbenzene	95-63-6	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 5	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	--	--	--	--	--	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dichloropropane	78-87-5	1	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 0.9
1,3-Dichloropropane	142-28-9	5	--	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 0.9
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	--	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	--	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	--	--	--	--	--
Acetone	67-64-1	50	--	< 50	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	--	--	--	--	--
Benzene	71-43-2	1	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	< 10	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 5	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	--	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 5	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 5	0.182 J	0.153 J	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 2.5	< 1.25	< 1.25	< 1.25	< 1.25	< 1.25	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 5	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 4/23/2020 REG	OS-2 10/12/2020 FD	OS-2 10/12/2020 REG	OS-2 4/26/2021 FD	OS-2 4/26/2021 REG	OS-2 10/7/2021 REG	OS-3 8/21/2007 REG	OS-3 11/29/2007 REG	OS-3 6/12/2008 REG	OS-3 11/20/2008 REG	OS-3 7/15/2009 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 5	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	< 50	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
Styrene	100-42-5	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 5	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	< 3	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	--	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
2,4,6-Trichlorophenol	88-06-2	1	--	< 10	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
2,4-Dichlorophenol	120-83-2	5	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
2,4-Dimethylphenol	105-67-9	50	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--	< 19	< 19	< 20	< 19
2,4-Dinitrotoluene	121-14-2	5	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
2,6-Dinitrotoluene	606-20-2	5	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
2-Chloronaphthalene	91-58-7	10	--	< 1	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 2	< 2	< 2	< 2	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 10	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
2-Methylnaphthalene	91-57-6	--	36	--	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 1	< 1	< 1	< 1	< 0.9
2-Methylphenol (o-Cresol)	95-48-7	1	--	--	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 0.9
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 10	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 1	< 1	< 1	< 1	< 0.9
3 & 4-Methylphenol	65794-96-9			--	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 0.9
4-Chloroaniline	106-47-8	5	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	--	--	--	--	--	--	< 2	< 2	< 2	< 2	< 2
4-Nitroaniline	100-01-6	5	--	--	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
4-Nitrophenol	100-02-7	1	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 9
Acenaphthene	83-32-9	20	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0243 J	< 1	< 1	< 1	< 0.9

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 4/23/2020 REG	OS-2 10/12/2020 FD	OS-2 10/12/2020 REG	OS-2 4/26/2021 FD	OS-2 4/26/2021 REG	OS-2 10/7/2021 REG	OS-3 8/21/2007 REG	OS-3 11/29/2007 REG	OS-3 6/12/2008 REG	OS-3 11/20/2008 REG	OS-3 7/15/2009 REG
Acenaphthylene	208-96-8	--	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Acetophenone	98-86-2	--	1900	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Atrazine	1912-24-9	--	0.3	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Benzo(a)pyrene	50-32-8	--	0.025	< 0.2	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
bis(2-Chloroethyl) ether	111-44-4	1	--	< 10	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 3	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 3	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--	--	--	--	--
Carbazole	86-74-8	--	--	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 0.9
Chrysene	218-01-9	0.002	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.2	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Dibenzofuran	117-84-0	50	--	--	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Diethylphthalate	53-70-3	50	0.025	< 3	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 3	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 3	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 3	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 1	< 1	< 1	< 1	< 0.9
Fluorene	86-73-7	50	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0211 J	< 1	< 1	< 1	< 1	< 0.9
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
Hexachlorocyclopentadiene	77-47-4	5	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
Isophorone	78-59-1	50	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 0.9
Naphthalene	621-64-7	10	0.011	< 5	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 0.9
Nitrobenzene	86-30-6	50	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 0.9
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 0.9
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2
p-Chloro-m-cresol	59-50-7	1	--	< 10	< 1.00	< 1.00	< 10.0	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 0.9
Pentachlorophenol	87-86-5	1	--	< 10	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3	< 3	< 3	< 3	< 3
Phenanthrene	85-01-8	50	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0682	< 1	< 1	< 1	< 1	< 0.9
Phenol	108-95-2	1	--	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 0.9
Pyrene	129-00-0	50	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0232 J	< 1	< 1	< 1	< 1	< 0.9
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-2 4/23/2020 REG	OS-2 10/12/2020 FD	OS-2 10/12/2020 REG	OS-2 4/26/2021 FD	OS-2 4/26/2021 REG	OS-2 10/7/2021 REG	OS-3 8/21/2007 REG	OS-3 11/29/2007 REG	OS-3 6/12/2008 REG	OS-3 11/20/2008 REG	OS-3 7/15/2009 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	< 6.9	< 6.9	< 6.9	< 6.9	--
Lead (Dissolved)	7439-92-1	25	--	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	--	--	--	--	< 6.9
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
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Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 11/11/2009 REG	OS-3 5/26/2010 FD	OS-3 5/26/2010 REG	OS-3 10/12/2010 REG	OS-3 5/11/2011 REG	OS-3 11/10/2011 REG	OS-3 7/18/2012 REG	OS-3 10/23/2012 REG	OS-3 6/11/2013 REG	OS-3 11/14/2013 REG	OS-3 6/11/2014 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
1,1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

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Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 3	< 3	< 3	< 3	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 11	< 11
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	11	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 2	< 2	< 2	< 2	< 2	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 11	< 11
Acenaphthene	83-32-9	20	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Acenaphthylene	208-96-8	--	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	0.3 J	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.5	< 0.1	4	< 0.1	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 1	< 1	< 1	< 1	< 0.1	0.4 J	< 0.1	5	< 0.1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.5	< 0.1	8	< 0.1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 1	< 1	< 1	< 1	< 0.1	0.4 J	< 0.1	4	< 0.1	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.5	< 0.1	3	< 0.1	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	3 J	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.5	< 0.1	6	< 0.1	< 0.1
Dibenz(a,h)anthracene	84-74-2	50	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	0.8	< 0.1	< 0.1
Dibenzofuran	117-84-0	50	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 1	< 1	< 1	< 1	0.1 J	< 0.6	0.1 J	11	< 0.1	< 0.1
Fluorene	86-73-7	50	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 1	< 1	< 1	< 1	< 0.1	0.3 J	< 0.1	4	< 0.1	< 0.1
Isophorone	78-59-1	50	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Naphthalene	621-64-7	10	0.011	< 1	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 1	< 1	< 1	< 1	< 1	< 0.1	0.2 J	< 0.1	3	< 0.1	< 0.1
Phenol	108-95-2	1	--	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Pyrene	129-00-0	50	--	< 1	< 1	< 1	< 1	< 1	0.1 J	< 0.5	< 0.1	9	< 0.1	< 0.1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

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Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 6.9	< 6.9	< 6.9	< 6.9	< 6.9	< 2.2	< 5.1	< 5.1	< 5.1	< 4.7	< 4.7
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 11/11/2014 REG	OS-3 6/19/2015 FD	OS-3 6/19/2015 REG	OS-3 11/16/2015 REG	OS-3 6/14/2016 REG	OS-3 11/16/2016 REG	OS-3 6/28/2017 REG	OS-3 11/1/2017 REG	OS-3 6/14/2018 REG	OS-3 11/1/2018 REG	OS-3 6/21/2019 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
1,1,2-Trichloroethane	79-00-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	< 1.0
1,1-Dichloroethane	75-34-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	< 1.0
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	< 1.0
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	< 1.0
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
1,2-Dichloroethane	107-06-2	0.6	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0
1,2-Dichloroethene	540-59-0	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	--
1,2-Dichloropropane	78-87-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	< 5.0
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.2	--
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	< 5.0
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	< 5.0
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	< 5.0
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	< 1.0
Bromodichloromethane	75-27-4	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Bromoform	75-25-2	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	< 1.0
Carbon Tetrachloride	56-23-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Chlorobenzene	108-90-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Chloroethane	75-00-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Chloroform	67-66-3	7	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	< 1.0
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	< 1.0
Dibromochloromethane	124-48-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	< 1.0
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 1.0
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	< 1.0
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 11/11/2014 REG	OS-3 6/19/2015 FD	OS-3 6/19/2015 REG	OS-3 11/16/2015 REG	OS-3 6/14/2016 REG	OS-3 11/16/2016 REG	OS-3 6/28/2017 REG	OS-3 11/1/2017 REG	OS-3 6/14/2018 REG	OS-3 11/1/2018 REG	OS-3 6/21/2019 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	< 5.0
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.3	< 1.0
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	< 1.0
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	< 1.0
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6 J	< 0.5	< 0.2	< 1.0
Toluene	108-88-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	< 1.0
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Xylene (total)	1330-20-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	--
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	< 10
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	< 50
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	< 10
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11	< 14	< 14	< 20
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 10
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2	< 10
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 3	< 3	< 10
3-Nitroaniline	99-09-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 8	< 8	< 20
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
4-Chloroaniline	106-47-8	5	--	< 0.5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4	< 4	< 10
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
4-Nitroaniline	100-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 10
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11	< 10	< 10	< 20
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 11/11/2014 REG	OS-3 6/19/2015 FD	OS-3 6/19/2015 REG	OS-3 11/16/2015 REG	OS-3 6/14/2016 REG	OS-3 11/16/2016 REG	OS-3 6/28/2017 REG	OS-3 11/1/2017 REG	OS-3 6/14/2018 REG	OS-3 11/1/2018 REG	OS-3 6/21/2019 REG
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	< 10
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	< 2.0
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	< 10
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	0.1 J	< 0.1	1	< 0.1	< 0.1	0.1 J	< 0.1	< 0.1	< 1.0
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	0.2 J	< 0.1	1	< 0.1	< 0.1	0.2 J	< 0.1	< 0.1	< 1.0
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	0.1 J	0.3 J	< 0.1	2	< 0.1	< 0.1	0.2 J	< 0.1	< 0.1	< 2.0
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	0.2 J	< 0.1	1	< 0.1	< 0.1	0.1 J	< 0.1	< 0.1	< 10
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 2.0
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	< 10
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	0.2 J	< 0.1	2	< 0.1	< 0.1	0.2 J	< 0.1	< 0.1	< 2.0
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0
Dibenzofuran	117-84-0	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 10
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	< 10
Fluoranthene	206-44-0	50	--	0.1 J	0.2 J	0.3 J	< 0.1	3	< 0.2	< 0.1	0.4 J	< 0.1	< 0.1	< 10
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0
Hexachlorobutadiene	87-68-3	0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	0.1 J	< 0.1	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2.0
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
Naphthalene	621-64-7	10	0.011	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10
Nitrobenzene	86-30-6	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 1.0
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 10
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 20
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	0.1 J	< 0.1	1	< 0.1	< 0.1	0.1 J	< 0.1	< 0.1	< 10
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
Pyrene	129-00-0	50	--	0.1 J	0.2 J	0.3 J	0.1 J	2	< 0.1	< 0.1	0.3 J	< 0.1	< 0.1	< 10
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 11/11/2014 REG	OS-3 6/19/2015 FD	OS-3 6/19/2015 REG	OS-3 11/16/2015 REG	OS-3 6/14/2016 REG	OS-3 11/16/2016 REG	OS-3 6/28/2017 REG	OS-3 11/1/2017 REG	OS-3 6/14/2018 REG	OS-3 11/1/2018 REG	OS-3 6/21/2019 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 4.7	< 4.7	< 4.7	< 5.1	< 5.1	< 6.2	< 6	< 6	< 6	< 7.1	< 1.2
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 10/30/2019 REG	OS-3 4/23/2020 REG	OS-3 10/13/2020 REG	OS-3 4/27/2021 REG	OS-3 10/7/2021 REG	DC-1 8/22/2007 REG	DC-1 11/28/2007 REG	DC-1 6/10/2008 REG	DC-1 11/18/2008 REG	DC-1 7/14/2009 REG	DC-1 11/10/2009 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	< 2.5	< 2.50	< 2.50	< 2.50	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1.0	< 1	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	95-63-6	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 1.0	< 5	< 0.00500	< 0.00500	< 0.00500	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	--	--	--	--	--	< 0.8	7	5 J	4 J	6	5 J
1,2-Dichloropropane	78-87-5	1	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	142-28-9	5	--	--	< 1	< 1.00	< 1.00	< 1.00	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 5.0	< 10	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	--	--	< 50.0	< 50.0	< 50.0	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	< 5.0	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	< 5.0	< 10	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--
Acetone	67-64-1	50	--	< 5.0	< 50	< 25.0	< 25.0	< 25.0	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	< 10	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	< 10	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	< 1.0	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1.0	< 5	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	< 1.0	--	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 1.0	< 5	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 1.0	< 5	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1.0	< 2.5	< 1.25	< 1.25	< 1.25	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	< 1.0	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 1.0	< 5	< 2.50	< 2.50	< 2.50	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	< 1.0	--	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 10/30/2019 REG	OS-3 4/23/2020 REG	OS-3 10/13/2020 REG	OS-3 4/27/2021 REG	OS-3 10/7/2021 REG	DC-1 8/22/2007 REG	DC-1 11/28/2007 REG	DC-1 6/10/2008 REG	DC-1 11/18/2008 REG	DC-1 7/14/2009 REG	DC-1 11/10/2009 REG
Methyl acetate	79-20-9	--	20000	< 5.0	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	< 1.0	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 1.0	< 5	< 2.50	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	< 50	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	< 1.0	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
Styrene	100-42-5	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	9	11	10	4 J	10	9
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 1.0	< 5	< 2.50	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	--	--	< 5.00	< 5.00	< 5.00	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	--	< 3	< 1.50	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	< 10	--	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	< 50	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	< 10	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 10	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	1	--	< 10	< 10	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	5	--	< 10	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	50	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3	< 3	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 20	< 10	< 10.0	< 10.0	< 10.0	< 22	< 22	< 19	< 19	< 19	< 22
2,4-Dinitrotoluene	121-14-2	5	--	< 2.0	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 2.0	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	91-58-7	10	--	< 10	< 1	< 0.250	< 0.250	< 0.250	< 2	< 2	< 2	< 2	< 2	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 10	< 10	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	--	36	< 10	--	< 0.250	< 0.250	< 0.250	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 10	--	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 10	--	< 5.00	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 10	< 10	< 1.00	< 1.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
3 & 4-Methylphenol	65794-96-9			--	--	< 1.00	< 1.00	< 1.00	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 10	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 20	< 10	< 10.0	< 10.0	< 10.0	< 5	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloroaniline	106-47-8	5	--	< 10	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 10	--	--	--	--	< 2	< 2	< 2	< 2	< 2	< 2
4-Nitroaniline	100-01-6	5	--	< 10	--	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	100-02-7	1	--	< 20	< 10	< 10.0	< 10.0	< 10.0	< 11	< 11	< 10	< 10	< 10	< 11
Acenaphthene	83-32-9	20	--	< 10	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 10/30/2019 REG	OS-3 4/23/2020 REG	OS-3 10/13/2020 REG	OS-3 4/27/2021 REG	OS-3 10/7/2021 REG	DC-1 8/22/2007 REG	DC-1 11/28/2007 REG	DC-1 6/10/2008 REG	DC-1 11/18/2008 REG	DC-1 7/14/2009 REG	DC-1 11/10/2009 REG
Acenaphthylene	208-96-8	--	--	< 10	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Acetophenone	98-86-2	--	1900	< 10	--	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 10	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Atrazine	1912-24-9	--	0.3	< 2.0	--	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	< 10	--	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1.0	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	50-32-8	--	0.025	< 1.0	< 0.2	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 2.0	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	< 10	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1.0	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 10	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1.0	< 10	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 10	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2.0	< 3	< 3.00	< 3.00	1.16 J	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 10	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	< 10	--	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 10	--	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	218-01-9	0.002	--	< 2.0	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Dibenz(a,h)anthracene	84-74-2	50	--	< 1.0	< 0.2	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	117-84-0	50	--	< 10	--	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Diethylphthalate	53-70-3	50	0.025	< 10	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 10	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 10	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 10	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	< 10	--	< 10.0	< 10.0	< 10.0	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 10	< 1	< 0.100	< 0.100	< 0.100	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	86-73-7	50	--	< 10	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 1.0	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	0.5	--	< 1.0	< 1	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 10	< 10	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 2.0	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 2.0	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	78-59-1	50	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	621-64-7	10	0.011	< 10	< 5	< 2.50	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	86-30-6	50	--	< 1.0	< 10	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1.0	< 10	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
p-Chloro-m-cresol	59-50-7	1	--	< 10	< 10	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	87-86-5	1	--	< 20	< 10	< 1.00	< 1.00	< 1.00	< 3	< 3	< 3	< 3	< 3	< 3
Phenanthrene	85-01-8	50	--	< 10	< 1	0.0346 J	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	108-95-2	1	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Pyrene	129-00-0	50	--	< 10	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OS-3 10/30/2019 REG	OS-3 4/23/2020 REG	OS-3 10/13/2020 REG	OS-3 4/27/2021 REG	OS-3 10/7/2021 REG	DC-1 8/22/2007 REG	DC-1 11/28/2007 REG	DC-1 6/10/2008 REG	DC-1 11/18/2008 REG	DC-1 7/14/2009 REG	DC-1 11/10/2009 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	< 1.2	--	--	--	--	44	15.7	13.7 J	36.1	--	< 6.9
Lead (Dissolved)	7439-92-1	25	--	--	< 5.0	< 5.0	< 2.0	< 2.0	--	--	--	--	< 6.9	--
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 5/26/2010 REG	DC-1 10/12/2010 REG	DC-1 5/11/2011 REG	DC-1 11/10/2011 REG	DC-1 10/23/2012 REG	DC-1 6/11/2013 REG	DC-1 6/11/2014 REG	DC-1 6/27/2017 REG	DC-1 10/31/2017 REG	DC-1 6/12/2018 REG	DC-1 11/2/2018 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.2
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3
1,2-Dichloroethene	540-59-0	5	--	4 J	4 J	4 J	4 J	3 J	3 J	4	3	< 0.5	3	3
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.2
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.2
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 5/26/2010 REG	DC-1 10/12/2010 REG	DC-1 5/11/2011 REG	DC-1 11/10/2011 REG	DC-1 10/23/2012 REG	DC-1 6/11/2013 REG	DC-1 6/11/2014 REG	DC-1 6/27/2017 REG	DC-1 10/31/2017 REG	DC-1 6/12/2018 REG	DC-1 11/2/2018 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.3
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	8	8	8	8	8	4 J	8	6	0.7 J	7	7
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 1
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 3	< 3	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 11	< 15	< 15
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 2	< 2	< 2	< 0.4	< 0.4	< 0.4	< 0.4	--	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 2	< 2
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 3	< 3
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	< 3	< 3
3-Nitroaniline	99-09-2	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 3	< 3
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	--	< 5	< 8	< 8
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 2	< 4	< 4
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.9	< 0.9
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 11	< 10	< 10
Acenaphthene	83-32-9	20	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1

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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 5/26/2010 REG	DC-1 10/12/2010 REG	DC-1 5/11/2011 REG	DC-1 11/10/2011 REG	DC-1 10/23/2012 REG	DC-1 6/11/2013 REG	DC-1 6/11/2014 REG	DC-1 6/27/2017 REG	DC-1 10/31/2017 REG	DC-1 6/12/2018 REG	DC-1 11/2/2018 REG
Acenaphthylene	208-96-8	--	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	< 5	< 5
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	84-74-2	50	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Dibenzofuran	117-84-0	50	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	< 5	< 5
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Fluorene	86-73-7	50	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 1	< 1	< 0.5	< 0.5	0.6 J	0.6 J	--	< 0.5	< 0.5	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Isophorone	78-59-1	50	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
Naphthalene	621-64-7	10	0.011	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.7	< 0.7
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.7	< 0.7
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 3	< 3	< 3	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Phenol	108-95-2	1	--	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
Pyrene	129-00-0	50	--	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 5/26/2010 REG	DC-1 10/12/2010 REG	DC-1 5/11/2011 REG	DC-1 11/10/2011 REG	DC-1 10/23/2012 REG	DC-1 6/11/2013 REG	DC-1 6/11/2014 REG	DC-1 6/27/2017 REG	DC-1 10/31/2017 REG	DC-1 6/12/2018 REG	DC-1 11/2/2018 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 6.9	< 6.9	< 6.9	< 2.2	< 5.1	< 5.1	< 4.7	--	< 6	< 6	< 7.1
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 6/21/2019 REG	DC-1 10/31/2019 REG	DC-1 4/23/2020 REG	DC-1 4/27/2021 REG	DC-1 10/6/2021 REG	DC-2 8/21/2007 REG	DC-2 11/28/2007 REG	DC-2 6/10/2008 REG	DC-2 11/18/2008 FD	DC-2 11/18/2008 REG	DC-2 7/14/2009 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	1	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1.0	< 1.0	< 1	0.123 J	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	563-58-6	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	< 1.0	< 1.0	< 1	< 0.500	< 0.500	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	< 2.5	< 2.50	< 2.50	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1.0	< 1.0	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 1.0	< 1.0	< 5	< 0.00500	< 0.00500	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	< 1.0	< 1.0	< 1	< 0.500	< 0.500	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.6	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene	540-59-0	5	--	--	--	--	--	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dichloropropane	78-87-5	1	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	142-28-9	5	--	--	--	< 1	< 1.00	< 1.00	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 5.0	< 5.0	< 10	< 5.00	< 5.00	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	--	--	--	< 50.0	< 50.0	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	< 5.0	< 5.0	--	< 5.00	< 5.00	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	< 5.0	< 5.0	< 10	< 5.00	< 5.00	--	--	--	--	--	--
Acetone	67-64-1	50	--	< 5.0	< 5.0	< 50	< 25.0	< 25.0	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	< 10	< 5.00	< 5.00	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	< 10	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	< 1.0	< 1.0	--	< 0.500	< 0.500	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	50	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1.0	< 1.0	< 5	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	75-15-0	60	--	< 1.0	< 1.0	--	< 0.500	< 0.500	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane	75-00-3	5	--	< 1.0	< 1.0	< 5	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	7	--	< 1.0	< 1.0	< 5	0.120 J	0.154 J	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1.0	< 1.0	< 2.5	< 1.25	< 1.25	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	5	--	2.7	1.5	2.53	2.78 J3	3.02	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Cyclohexane	110-82-7	--	13000	< 1.0	< 1.0	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 1.0	< 1.0	< 5	< 2.50	< 2.50	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	< 5.00	< 5.00	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	< 1.0	< 1.0	< 1	< 0.500	< 0.500	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--	--	--

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 6/21/2019 REG	DC-1 10/31/2019 REG	DC-1 4/23/2020 REG	DC-1 4/27/2021 REG	DC-1 10/6/2021 REG	DC-2 8/21/2007 REG	DC-2 11/28/2007 REG	DC-2 6/10/2008 REG	DC-2 11/18/2008 FD	DC-2 11/18/2008 REG	DC-2 7/14/2009 REG
Methyl acetate	79-20-9	--	20000	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 1.0	< 1.0	< 5	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	< 50	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	< 1.0	< 1.0	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
Styrene	100-42-5	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	< 1	< 0.500	< 0.500	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Toluene	108-88-3	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,2-Dichloroethene	156-60-5	5	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	< 5.00	< 5.00	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	6.9	4.6	5.11	6.38	7.17	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 1.0	< 1.0	< 5	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Acetate	108-05-4	--	--	--	--	--	< 5.00	< 5.00	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	1330-20-7	5	--	--	--	< 3	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	< 10	< 10	--	< 10.0	< 10.0	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	< 50	< 50	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	< 10	< 10	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 10	< 10	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	88-06-2	1	--	< 10	< 10	< 10	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	120-83-2	5	--	< 10	< 10	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	105-67-9	50	--	< 10	< 10	< 10	< 10.0	< 10.0	< 3	< 3	< 3	< 3	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 20	< 20	< 10	< 10.0	< 10.0	< 20	< 20	< 22	< 19	< 19	< 20
2,4-Dinitrotoluene	121-14-2	5	--	< 2.0	< 2.0	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 2.0	< 2.0	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	91-58-7	10	--	< 10	< 10	< 1	< 0.250	< 0.250	< 2	< 2	< 2	< 2	< 2	< 2
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 10	< 10	< 10	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylnaphthalene	91-57-6	--	36	< 10	< 10	--	< 0.250	< 0.250	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 10	< 10	--	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 10	< 10	--	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 10	< 10	< 10	< 1.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
3 & 4-Methylphenol	65794-96-9			--	--	--	< 1.00	< 1.00	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 10	< 10	< 10	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 10	< 10	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 20	< 20	< 10	< 10.0	< 10.0	< 5	< 5	< 6	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 10	< 10	< 10	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloroaniline	106-47-8	5	--	< 10	< 10	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 10	< 10	< 10	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 10	< 10	--	--	--	< 2	< 2	< 2	< 2	< 2	< 2
4-Nitroaniline	100-01-6	5	--	< 10	< 10	--	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	100-02-7	1	--	< 20	< 20	< 10	< 10.0	< 10.0	< 10	< 10	< 11	< 10	< 10	< 10
Acenaphthene	83-32-9	20	--	< 10	< 10	< 1	< 0.0500	0.144	< 1	< 1	< 1	< 1	< 1	< 1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 6/21/2019 REG	DC-1 10/31/2019 REG	DC-1 4/23/2020 REG	DC-1 4/27/2021 REG	DC-1 10/6/2021 REG	DC-2 8/21/2007 REG	DC-2 11/28/2007 REG	DC-2 6/10/2008 REG	DC-2 11/18/2008 FD	DC-2 11/18/2008 REG	DC-2 7/14/2009 REG
Acenaphthylene	208-96-8	--	--	< 10	< 10	< 1	< 0.0500	0.0634	< 1	< 1	< 1	< 1	< 1	< 1
Acetophenone	98-86-2	--	1900	< 10	< 10	--	< 10.0	< 10.0	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 10	< 10	< 1	< 0.0500	0.0788	< 1	< 1	< 1	< 1	< 1	< 1
Atrazine	1912-24-9	--	0.3	< 2.0	< 2.0	--	< 10.0	< 10.0	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	< 10	< 10	--	< 10.0	< 10.0	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1.0	< 1.0	< 1	< 0.0500	0.0378 J	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	50-32-8	--	0.025	< 1.0	< 1.0	< 0.2	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 2.0	< 2.0	< 1	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	191-24-2	--	--	< 10	< 10	< 1	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1.0	< 1.0	< 1	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 10	< 10	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1.0	< 1.0	< 10	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 10	< 10	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2.0	< 2.0	< 3	1.08 J	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 10	< 10	< 3	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	< 10	< 10	--	< 10.0	1.06 J	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 10	< 10	--	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	218-01-9	0.002	--	< 2.0	< 2.0	< 1	< 0.0500	0.0246 J	< 1	< 1	< 1	< 1	< 1	< 1
Dibenz(a,h)anthracene	84-74-2	50	--	< 1.0	< 1.0	< 0.2	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	117-84-0	50	--	< 10	< 10	--	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Diethylphthalate	53-70-3	50	0.025	< 10	< 10	< 3	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 10	< 10	< 3	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 10	< 10	< 3	12.8	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 10	< 10	< 3	< 3.00	< 3.00	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	< 10	< 10	--	< 10.0	< 10.0	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 10	< 10	< 1	< 0.100	0.0687 J	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	86-73-7	50	--	< 10	< 10	< 1	< 0.0500	0.101	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobenzene	118-74-1	0.04	--	< 1.0	< 1.0	< 1	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	87-68-3	0.5	--	< 1.0	< 1.0	0.488 J	0.715 C3JJ3	0.775 J	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	77-47-4	5	--	< 10	< 10	< 10	< 5.00	< 5.00	< 5	< 5	< 6	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 2.0	< 2.0	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 2.0	< 2.0	< 1	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	78-59-1	50	--	< 10	< 10	< 10	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	621-64-7	10	0.011	< 10	< 10	< 5	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	86-30-6	50	--	< 1.0	< 1.0	< 10	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1.0	< 1.0	< 10	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 10	< 10	< 10	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
p-Chloro-m-cresol	59-50-7	1	--	< 10	< 10	< 10	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	87-86-5	1	--	< 20	< 20	< 10	< 1.00	< 1.00	< 3	< 3	< 3	< 3	< 3	< 3
Phenanthrene	85-01-8	50	--	< 10	< 10	< 1	< 0.0500	0.317	< 1	< 1	< 1	< 1	< 1	< 1
Phenol	108-95-2	1	--	< 10	< 10	< 10	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Pyrene	129-00-0	50	--	< 10	< 10	< 1	< 0.0500	0.114	< 1	< 1	< 1	< 1	< 1	< 1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-1 6/21/2019 REG	DC-1 10/31/2019 REG	DC-1 4/23/2020 REG	DC-1 4/27/2021 REG	DC-1 10/6/2021 REG	DC-2 8/21/2007 REG	DC-2 11/28/2007 REG	DC-2 6/10/2008 REG	DC-2 11/18/2008 FD	DC-2 11/18/2008 REG	DC-2 7/14/2009 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	6.8	--	--	--	< 6.9	16.1	< 6.9	27.1	24.4	--
Lead (Dissolved)	7439-92-1	25	--	< 1.2	--	< 5.0	< 2.0	< 2.0	--	--	--	--	--	< 6.9
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 11/10/2009 REG	DC-2 5/26/2010 REG	DC-2 10/12/2010 REG	DC-2 5/11/2011 REG	DC-2 11/10/2011 REG	DC-2 7/18/2012 REG	DC-2 10/23/2012 REG	DC-2 6/11/2013 REG	DC-2 11/13/2013 REG	DC-2 6/11/2014 REG	DC-2 11/12/2014 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
1,1,2-Trichloroethane	79-00-5	1	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
1,2-Dichloroethane	107-06-2	0.6	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
1,2-Dichloroethene	540-59-0	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
1,2-Dichloropropane	78-87-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Bromoform	75-25-2	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Chlorobenzene	108-90-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
Chloroethane	75-00-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Chloroform	67-66-3	7	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	50	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	--	--

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Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	--	--
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
Toluene	108-88-3	5	--	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5	< 0.5
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5
Xylene (total)	1330-20-7	5	--	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 3	< 3	< 3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2,4-Dinitrophenol	51-28-5	10	--	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 11	< 11	< 10
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 2	< 2	< 2	< 2	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	99-09-2	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5	< 5
4-Bromophenylphenylether	101-55-3	--	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 11	< 11	< 10
Acenaphthene	83-32-9	20	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Acenaphthylene	208-96-8	--	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	50	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	56-55-3	0.002	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	--	--
Carbazole	86-74-8	--	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	84-74-2	50	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	117-84-0	50	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	50	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	86-73-7	50	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	78-59-1	50	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Naphthalene	621-64-7	10	0.011	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
p-Chloro-m-cresol	59-50-7	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	108-95-2	1	--	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Pyrene	129-00-0	50	--	< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

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Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	< 6.9	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	--	< 6.9	< 6.9	< 6.9	< 2.2	< 5.1	< 5.1	< 5.1	< 4.7	< 4.7	< 4.7
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 6/22/2015 REG	DC-2 11/17/2015 REG	DC-2 6/13/2016 REG	DC-2 11/15/2016 FD	DC-2 11/15/2016 REG	DC-2 6/27/2017 REG	DC-2 10/31/2017 REG	DC-2 6/12/2018 REG	DC-2 11/2/2018 REG	DC-2 6/21/2019 FD	DC-2 6/21/2019 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,1-Trichloroethane	71-55-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
1,1,2-Trichloroethane	79-00-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
1,1-Dichloroethane	75-34-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
1,1-Dichloropropene	563-58-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
1,2-Dibromoethane	106-93-4	--	0.0075	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
1,2-Dichloroethane	107-06-2	0.6	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0
1,2-Dichloroethene	540-59-0	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	--	--
1,2-Dichloropropane	78-87-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
1,3-Dichloropropane	142-28-9	5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0
2-Chloroethyl vinyl ether	110-75-8	--	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.2	--	--
2-Hexanone	591-78-6	50	--	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0
4-Isopropyltoluene	99-87-6	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0
Acetone	67-64-1	50	--	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0
Acrylonitrile	107-13-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Benzidine	92-87-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	83	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
Bromodichloromethane	75-27-4	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Bromoform	75-25-2	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0
Carbon disulfide	75-15-0	60	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
Carbon Tetrachloride	56-23-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Chlorobenzene	108-90-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Chloroethane	75-00-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Chloroform	67-66-3	7	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
cis-1,2-Dichloroethene	156-59-2	5	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Cyclohexane	110-82-7	--	13000	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
Dibromochloromethane	124-48-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
Diisopropyl ether	108-20-3	--	1500	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 1.0	< 1.0
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	110-54-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	98-82-8	--	450	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0

Appendix B-4
OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 6/22/2015 REG	DC-2 11/17/2015 REG	DC-2 6/13/2016 REG	DC-2 11/15/2016 FD	DC-2 11/15/2016 REG	DC-2 6/27/2017 REG	DC-2 10/31/2017 REG	DC-2 6/12/2018 REG	DC-2 11/2/2018 REG	DC-2 6/21/2019 FD	DC-2 6/21/2019 REG
Methyl acetate	79-20-9	--	20000	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.3	< 1.0	< 1.0
Methyl-t-butyl ether	1634-04-4	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
n-Butylbenzene	104-51-8	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	--	190	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
p-Chlorotoluene	106-43-4	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	5	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
t-Butylbenzene	98-06-6	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Toluene	108-88-3	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
trans-1,2-Dichloroethene	156-60-5	5	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Vinyl Acetate	108-05-4	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0
Xylene (total)	1330-20-7	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	--	--
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	--	--	--	--	--	--	--	--	--	< 10	< 10
1,4-Dioxane	123-91-1	--	0.46	--	--	--	--	--	--	--	--	--	< 50	< 50
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	--	--	--	--	--	--	--	--	--	< 10	< 10
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
2,4-Dichlorophenol	120-83-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
2,4-Dimethylphenol	105-67-9	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10	< 10
2,4-Dinitrophenol	51-28-5	10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 15	< 14	< 20	< 20
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0
2,6-Dinitrotoluene	606-20-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 2.0
2-Chloronaphthalene	91-58-7	10	--	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 10	< 10
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
2-Methylnaphthalene	91-57-6	--	36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2	< 10	< 10
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10	< 10
3 & 4-Methylphenol	65794-96-9			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 3	< 3	< 10	< 10
3-Nitroaniline	99-09-2	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3	< 3	< 10	< 10
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 8	< 8	< 20	< 20
4-Bromophenylphenylether	101-55-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
4-Chloroaniline	106-47-8	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4	< 4	< 10	< 10
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
4-Nitroaniline	100-01-6	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 10	< 10
4-Nitrophenol	100-02-7	1	--	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 20	< 20
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10

Appendix B-4
OU-1E Groundwater Data
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Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 6/22/2015 REG	DC-2 11/17/2015 REG	DC-2 6/13/2016 REG	DC-2 11/15/2016 FD	DC-2 11/15/2016 REG	DC-2 6/27/2017 REG	DC-2 10/31/2017 REG	DC-2 6/12/2018 REG	DC-2 11/2/2018 REG	DC-2 6/21/2019 FD	DC-2 6/21/2019 REG
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Acetophenone	98-86-2	--	1900	--	--	--	--	--	--	--	--	--	< 10	< 10
Anthracene	120-12-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Atrazine	1912-24-9	--	0.3	--	--	--	--	--	--	--	--	--	< 2.0	< 2.0
Benzaldehyde	100-52-7	--	19	--	--	--	--	--	--	--	--	--	< 10	< 10
Benzo(a)anthracene	56-55-3	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0
Benzo(a)pyrene	50-32-8	--	0.025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0
Benzo(b)fluoranthene	205-99-2	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Benzo(k)fluoranthene	207-08-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 2.0	< 2.0
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10
Caprolactam	105-60-2	--	9900	--	--	--	--	--	--	--	--	--	9.0 J	< 10
Carbazole	86-74-8	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
Chrysene	218-01-9	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0
Dibenz(a,h)anthracene	84-74-2	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0
Dibenzofuran	117-84-0	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
Diethylphthalate	53-70-3	50	0.025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10
Di-n-butylphthalate	84-66-2	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10
Di-n-octylphthalate	131-11-3	50	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 10	< 10
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	--	--	--	--	--	--	--	--	--	< 10	< 10
Fluoranthene	206-44-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Fluorene	86-73-7	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0
Hexachlorobutadiene	87-68-3	0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0
Hexachlorocyclopentadiene	77-47-4	5	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10
Hexachloroethane	67-72-1	5	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0	< 2.0
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2.0	< 2.0
Isophorone	78-59-1	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
Naphthalene	621-64-7	10	0.011	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Nitrobenzene	86-30-6	50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1 J	< 1.0	< 1.0
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 1.0	< 1.0
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.7	< 0.7	< 10	< 10
p-Chloro-m-cresol	59-50-7	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
Pentachlorophenol	87-86-5	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 20	< 20
Phenanthrene	85-01-8	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Phenol	108-95-2	1	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
Pyrene	129-00-0	50	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10
Metals														
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 6/22/2015 REG	DC-2 11/17/2015 REG	DC-2 6/13/2016 REG	DC-2 11/15/2016 FD	DC-2 11/15/2016 REG	DC-2 6/27/2017 REG	DC-2 10/31/2017 REG	DC-2 6/12/2018 REG	DC-2 11/2/2018 REG	DC-2 6/21/2019 FD	DC-2 6/21/2019 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	7439-92-1	25	--	--	--	--	--	--	--	--	--	--	--	--
Lead (Dissolved)	7439-92-1	25	--	< 4.7	< 5.1	< 5.1	< 6.2	< 6.2	< 6	< 6	< 6	< 7.1	< 1.2	< 1.2
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	--	--	--	--	--
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 10/31/2019 REG	DC-2 12/3/2019 REG	DC-2 4/23/2020 REG	DC-2 10/12/2020 REG	DC-2 4/27/2021 REG	DC-2 10/6/2021 REG	OU1EESB01 11/19/2018 REG	OU1EESB08 11/19/2018 REG	OU1EESB20 11/19/2018 REG
Volatile Organic Compounds												
1,1 Dichloroethene	75-35-4	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
1,1,1-Trichloroethane	71-55-6	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.3	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	79-00-5	1	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,1-Dichloroethane	75-34-3	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,1-Dichloropropene	563-58-6	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	7	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.4	< 0.4	< 0.4
1,2,3-Trichloropropane	96-18-4	0.04	--	--	--	< 2.5	< 2.50	< 2.50	< 2.50	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5	--	< 1.0	--	< 1	< 1.00	< 1.00	< 1.00	< 0.3	< 0.3	< 0.3
1,2,4-Trimethylbenzene	95-63-6	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 1.0	--	< 5	< 0.00500	< 0.00500	< 0.00500	< 0.3	< 0.3	< 0.3
1,2-Dibromoethane	106-93-4	--	0.0075	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	107-06-2	0.6	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.3	< 0.3	< 0.3
1,2-Dichloroethene	540-59-0	5	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	1	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,3,5-Trimethylbenzene	108-67-8	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
1,3-Dichlorobenzene	541-73-1	3	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,3-Dichloropropane	142-28-9	5	--	--	--	< 1	< 1.00	< 1.00	< 1.00	--	--	--
1,4-Dichlorobenzene	106-46-7	3	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	< 5.0	--	< 10	< 5.00	< 5.00	< 5.00	< 0.3	< 0.3	< 0.3
2-Chloroethyl vinyl ether	110-75-8	--	--	--	--	--	< 50.0	< 50.0	< 50.0	--	--	--
2-Hexanone	591-78-6	50	--	< 5.0	--	--	< 5.00	< 5.00	< 5.00	< 0.3	< 0.3	< 0.3
4-Isopropyltoluene	99-87-6	--	--	--	--	< 1	< 0.500	< 0.500	0.824	--	--	--
4-Methyl-2-pentanone	108-10-1	--	6300	< 5.0	--	< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
Acetone	67-64-1	50	--	< 5.0	--	< 50	< 25.0	< 25.0	< 25.0	< 0.7	< 0.7	< 0.7
Acrylonitrile	107-13-1	--	--	--	--	< 10	< 5.00	< 5.00	< 5.00	--	--	--
Benzene	71-43-2	1	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Benzidine	92-87-5	--	--	--	--	< 10	--	--	--	--	--	--
Bromobenzene	108-86-1	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
Bromochloromethane	74-97-5	--	83	< 1.0	--	--	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Bromodichloromethane	75-27-4	50	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Bromoform	75-25-2	50	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Bromomethane (Methyl bromide)	74-83-9	5	--	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 0.3	< 0.3	< 0.3
Carbon disulfide	75-15-0	60	--	< 1.0	--	--	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Carbon Tetrachloride	56-23-5	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Chlorobenzene	108-90-7	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Chloroethane	75-00-3	5	--	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 0.2	< 0.2	< 0.2
Chloroform	67-66-3	7	--	< 1.0	--	< 5	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Chloromethane (Methyl chloride)	74-87-3	5	--	< 1.0	--	< 2.5	< 1.25	< 1.25	< 1.25	< 0.2	< 0.2	< 0.2
cis-1,2-Dichloroethene	156-59-2	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Cyclohexane	110-82-7	--	13000	< 1.0	--	--	--	--	--	< 0.2	< 0.2	< 0.2
Dibromochloromethane	124-48-1	50	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Dibromomethane (Methylene bromide)	74-95-3	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 0.2	< 0.2	< 0.2
Diisopropyl ether	108-20-3	--	1500	--	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Ethylbenzene	100-41-4	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.4	< 0.4	< 0.4
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2
Hexane	110-54-3	--	--	--	--	--	< 5.00	< 5.00	< 5.00	--	--	--
Isopropylbenzene	98-82-8	--	450	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
m,p-Xylenes	XYLENES-MP	--	--	< 1.0	--	--	--	--	--	< 1	< 1	< 1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 10/31/2019 REG	DC-2 12/3/2019 REG	DC-2 4/23/2020 REG	DC-2 10/12/2020 REG	DC-2 4/27/2021 REG	DC-2 10/6/2021 REG	OU1EESB01 11/19/2018 REG	OU1EESB08 11/19/2018 REG	OU1EESB20 11/19/2018 REG
Methyl acetate	79-20-9	--	20000	< 5.0	--	--	--	--	--	< 0.2	< 0.2	< 0.2
Methylcyclohexane	108-87-2	--	--	< 1.0	--	--	--	--	--	< 0.2	< 0.2	< 0.2
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 0.3	< 0.3	< 0.3
Methyl-t-butyl ether	1634-04-4	10	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
n-Butylbenzene	104-51-8	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
N-Nitrosodimethylamine	62-75-9	--	--	--	--	< 50	--	--	--	--	--	--
n-Propylbenzene	103-65-1	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
o-Chlorotoluene	95-49-8	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
o-Xylene	95-47-6	--	190	< 1.0	--	--	--	--	--	< 0.4	< 0.4	< 0.4
p-Chlorotoluene	106-43-4	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
sec-Butylbenzene	135-98-8	--	--	--	--	< 1	< 0.500	< 0.500	0.128 J	--	--	--
sec-Dichloropropane	594-20-7	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
Styrene	100-42-5	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
t-Butylbenzene	98-06-6	--	--	--	--	< 1	< 0.500	< 0.500	< 0.500	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	< 0.8	< 0.8	< 0.8
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	< 12	< 12	< 12
Tetrachloroethene	127-18-4	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Toluene	108-88-3	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
trans-1,2-Dichloroethene	156-60-5	5	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
trans-1,4-Dichloro-2-Butene	110-57-6	--	--	--	--	--	< 5.00	< 5.00	< 5.00	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 1.0	--	0.227 J	< 0.500	< 0.500	0.234 J	< 0.2	< 0.2	< 0.2
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 1.0	--	< 5	< 2.50	< 2.50	< 2.50	< 0.2	< 0.2	< 0.2
Vinyl Acetate	108-05-4	--	--	--	--	--	< 5.00	< 5.00	< 5.00	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 1.0	--	< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
Xylene (total)	1330-20-7	5	--	--	--	< 3	< 1.50	< 1.50	< 1.50	< 1	< 1	< 1
Semivolatile Organic Compounds												
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	< 10	--	--	< 10.0	< 10.0	< 10.0	< 0.5	< 0.5	< 0.5
1,4-Dioxane	123-91-1	--	0.46	< 50	< 0.40	--	--	--	--	< 2	< 2	< 2
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	< 10	--	--	--	--	--	< 4	< 4	< 4
2,4,5-Trichlorophenol	95-95-4	1	--	< 10	--	--	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
2,4,6-Trichlorophenol	88-06-2	1	--	< 10	--	< 10	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	120-83-2	5	--	< 10	--	< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
2,4-Dimethylphenol	105-67-9	50	--	< 10	--	< 10	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3
2,4-Dinitrophenol	51-28-5	10	--	< 20	--	< 10	< 10.0	< 10.0	< 10.0	< 14	< 15	< 14
2,4-Dinitrotoluene	121-14-2	5	--	< 2.0	--	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 2.0	--	< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10	--	< 10	--	< 1	< 0.250	< 0.250	< 0.250	< 0.4	< 0.4	< 0.4
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 10	--	< 10	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
2-Methylnaphthalene	91-57-6	--	36	< 10	--	--	< 0.250	< 0.250	0.127 J	< 0.1	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 10	--	--	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 10	--	--	< 5.00	< 5.00	< 10.0	< 2	< 2	< 2
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 10	--	< 10	< 1.00	< 1.00	< 10.0	< 3	< 3	< 3
3 & 4-Methylphenol	65794-96-9			--	--	--	< 1.00	< 1.00	< 1.00	--	--	--
3,3'-Dichlorobenzidine	91-94-1	5	--	< 10	--	< 10	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3
3-Nitroaniline	99-09-2	5	--	< 10	--	--	< 5.00	< 5.00	< 5.00	< 3	< 3	< 3
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 20	--	< 10	< 10.0	< 10.0	< 10.0	< 8	< 9	< 8
4-Bromophenylphenylether	101-55-3	--	--	< 10	--	< 10	< 10.0	< 10.0	< 10.0	< 0.5	< 0.5	< 0.5
4-Chloroaniline	106-47-8	5	--	< 10	--	--	< 5.00	< 5.00	< 5.00	< 4	< 4	< 4
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 10	--	< 10	< 10.0	< 10.0	< 10.0	< 0.5	< 0.5	< 0.5
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 10	--	--	--	--	--	< 0.5	< 0.5	< 0.5
4-Nitroaniline	100-01-6	5	--	< 10	--	--	< 5.00	< 5.00	< 5.00	< 0.9	< 1	< 0.9
4-Nitrophenol	100-02-7	1	--	< 20	--	< 10	< 10.0	< 10.0	< 10.0	< 10	< 11	< 10
Acenaphthene	83-32-9	20	--	< 10	--	< 1	< 0.0500	< 0.0500	0.583	< 0.1	< 0.1	< 0.1

Appendix B-4
OU-1E Groundwater Data
Chevron Environmental Management Company
Former Texaco Research Center
Beacon (Glenham), NY



Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 10/31/2019 REG	DC-2 12/3/2019 REG	DC-2 4/23/2020 REG	DC-2 10/12/2020 REG	DC-2 4/27/2021 REG	DC-2 10/6/2021 REG	OU1EESB01 11/19/2018 REG	OU1EESB08 11/19/2018 REG	OU1EESB20 11/19/2018 REG
Acenaphthylene	208-96-8	--	--	< 10	--	< 1	< 0.0500	< 0.0500	0.381	< 0.1	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	< 10	--	--	< 10.0	< 10.0	< 10.0	< 4	< 4	< 4
Anthracene	120-12-7	50	--	< 10	--	< 1	< 0.0500	< 0.0500	0.379	< 0.1	< 0.1	0.5
Atrazine	1912-24-9	--	0.3	< 2.0	--	--	< 10.0	< 10.0	< 10.0	< 2	< 2	< 2
Benzaldehyde	100-52-7	--	19	< 10	--	--	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3
Benzo(a)anthracene	56-55-3	0.002	--	< 1.0	--	< 1	< 0.0500	< 0.0500	0.211	< 0.1	< 0.1	3
Benzo(a)pyrene	50-32-8	--	0.025	< 1.0	--	< 0.2	< 0.0500	< 0.0500	0.105	< 0.1	< 0.1	3
Benzo(b)fluoranthene	205-99-2	0.002	--	< 2.0	--	< 1	< 0.0500	< 0.0500	0.0792	< 0.1	< 0.1	3
Benzo(g,h,i)perylene	191-24-2	--	--	< 10	--	< 1	< 0.0500	< 0.0500	0.0684	< 0.1	< 0.1	2
Benzo(k)fluoranthene	207-08-9	0.002	--	< 1.0	--	< 1	< 0.0500	< 0.0500	0.0333 J	< 0.1	< 0.1	1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 10	--	< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
bis(2-Chloroethyl) ether	111-44-4	1	--	< 1.0	--	< 10	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 10	--	< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 2.0	--	< 3	< 3.00	< 3.00	< 3.00	< 5	< 5	< 5
Butylbenzylphthalate	85-68-7	50	--	< 10	--	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2
Caprolactam	105-60-2	--	9900	< 10	--	--	< 10.0	< 10.0	2.30 J	< 5	< 5	< 5
Carbazole	86-74-8	--	--	< 10	--	--	< 10.0	< 10.0	< 10.0	< 0.5	< 0.5	< 0.5
Chrysene	218-01-9	0.002	--	< 2.0	--	< 1	< 0.0500	< 0.0500	0.156	< 0.1	< 0.1	3
Dibenz(a,h)anthracene	84-74-2	50	--	< 1.0	--	< 0.2	< 0.0500	< 0.0500	0.0176 J	< 0.1	< 0.1	0.5 J
Dibenzofuran	117-84-0	50	--	< 10	--	--	< 0.0500	< 0.0500	0.0366 J	< 0.5	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025	< 10	--	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2
Dimethyl phthalate	132-64-9	50	7.9	< 10	--	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2
Di-n-butylphthalate	84-66-2	50	--	< 10	--	< 3	< 3.00	< 3.00	< 3.00	< 2	< 2	< 2
Di-n-octylphthalate	131-11-3	50	--	< 10	--	< 3	< 3.00	< 3.00	< 3.00	< 5	< 5	< 5
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	< 10	--	--	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3
Fluoranthene	206-44-0	50	--	< 10	--	< 1	< 0.100	< 0.100	0.343	< 0.1	< 0.1	5
Fluorene	86-73-7	50	--	< 10	--	< 1	< 0.0500	< 0.0500	0.413	< 0.1	< 0.1	0.2 J
Hexachlorobenzene	118-74-1	0.04	--	< 1.0	--	< 1	< 0.0500	< 0.0500	< 0.0500	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 1.0	--	< 1	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
Hexachlorocyclopentadiene	77-47-4	5	--	< 10	--	< 10	< 5.00	< 5.00	< 5.00	< 5	< 5	< 5
Hexachloroethane	67-72-1	5	--	< 2.0	--	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	< 2.0	--	< 1	< 0.0500	< 0.0500	0.0484 J	< 0.1	< 0.1	2
Isophorone	78-59-1	50	--	< 10	--	< 10	< 10.0	< 10.0	< 10.0	< 0.5	< 0.5	< 0.5
Naphthalene	621-64-7	10	0.011	< 10	--	< 5	< 2.50	< 2.50	0.216 C3J	< 0.1	< 0.1	< 0.1
Nitrobenzene	86-30-6	50	--	< 1.0	--	< 10	< 10.0	< 10.0	< 10.0	< 0.5	< 0.5	< 0.5
N-Nitrosodi-n-propylamine	91-20-3	10	--	< 1.0	--	< 10	< 10.0	< 10.0	< 10.0	< 0.7	< 0.7	< 0.7
N-Nitrosodiphenylamine (Diphenylamine)	98-95-3	0.4	--	< 10	--	< 10	< 10.0	< 10.0	< 10.0	< 0.7	< 0.7	< 0.7
p-Chloro-m-cresol	59-50-7	1	--	< 10	--	< 10	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
Pentachlorophenol	87-86-5	1	--	< 20	--	< 10	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1
Phenanthrene	85-01-8	50	--	< 10	--	< 1	< 0.0500	< 0.0500	1.15	< 0.1	< 0.1	2
Phenol	108-95-2	1	--	< 10	--	< 10	< 10.0	< 10.0	< 10.0	< 0.5	< 0.5	< 0.5
Pyrene	129-00-0	50	--	< 10	--	< 1	< 0.0500	< 0.0500	0.629	< 0.1	< 0.1	5
Metals												
Aluminum	7429-90-5	100	--	--	--	--	--	--	--	29,800	13,100	12,700
Aluminum (Dissolved)	7429-90-5	100	--	--	--	--	--	--	--	< 19.7	< 19.7	< 19.7
Antimony	7440-36-0	3	--	--	--	--	--	--	--	0.93 J	< 0.41 K1	< 0.41 K1
Antimony (Dissolved)	7440-36-0	3	--	--	--	--	--	--	--	< 0.41 K1	< 0.41 K1	< 0.41 K1
Arsenic	7440-38-2	25	--	--	--	--	--	--	--	22.1	9.8	5.2
Arsenic (Dissolved)	7440-38-2	25	--	--	--	--	--	--	--	< 0.68	< 0.68	< 0.68
Barium	7440-39-3	1,000	--	--	--	--	--	--	--	179	67	135
Barium (Dissolved)	7440-39-3	1,000	--	--	--	--	--	--	--	13.7	4.6	5.1
Beryllium	7440-41-7	3	--	--	--	--	--	--	--	1.9	1.1	1.1
Beryllium (Dissolved)	7440-41-7	3	--	--	--	--	--	--	--	< 0.091	< 0.091	< 0.091
Cadmium	7440-43-9	5	--	--	--	--	--	--	--	0.52 J	0.2 J	0.18 J

Location ID Sample Date Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	DC-2 10/31/2019 REG	DC-2 12/3/2019 REG	DC-2 4/23/2020 REG	DC-2 10/12/2020 REG	DC-2 4/27/2021 REG	DC-2 10/6/2021 REG	OU1EESB01 11/19/2018 REG	OU1EESB08 11/19/2018 REG	OU1EESB20 11/19/2018 REG
Cadmium (Dissolved)	7440-43-9	5	--	--	--	--	--	--	--	< 0.15	< 0.15	< 0.15
Calcium	7440-70-2	--	--	--	--	--	--	--	--	130,000	38,300	30,800
Calcium (Dissolved)	7440-70-2	--	--	--	--	--	--	--	--	82,600	35,000	26,400
Chromium	7440-47-3	50	--	--	--	--	--	--	--	46.3	15.6	16.1
Chromium (Dissolved)	7440-47-3	50	--	--	--	--	--	--	--	0.94 J	0.78 J	< 0.7
Cobalt	7440-48-4	5	--	--	--	--	--	--	--	31.8	8.2	9.4
Cobalt (Dissolved)	7440-48-4	5	--	--	--	--	--	--	--	0.17 J	0.16 J	< 0.16
Copper	7440-50-8	200	--	--	--	--	--	--	--	102	27.1 J	24.4 J
Copper (Dissolved)	7440-50-8	200	--	--	--	--	--	--	--	< 9.9	< 9.9	< 9.9
Iron	7439-89-6	300	--	--	--	--	--	--	--	60,100	30,200	64,600
Iron (Dissolved)	7439-89-6	300	--	--	--	--	--	--	--	< 22.8	< 22.8	51.1 J
Lead	7439-92-1	25	--	< 1.2	--	--	--	--	--	42.8	11.8	23.2
Lead (Dissolved)	7439-92-1	25	--	--	--	< 5.0	< 5.0	< 2.0	< 2.0	< 1.1	< 1.1	< 1.1
Magnesium	7439-95-4	35,000	--	--	--	--	--	--	--	61,300	17,800	8,770
Magnesium (Dissolved)	7439-95-4	35,000	--	--	--	--	--	--	--	31,000	12,500	5,060
Manganese	7439-96-5	300	--	--	--	--	--	--	--	2,620	904	758
Manganese (Dissolved)	7439-96-5	300	--	--	--	--	--	--	--	66.5	< 4.9	39.8
Nickel	7440-02-0	100	--	--	--	--	--	--	--	65.2	25.9	55.1
Nickel (Dissolved)	7440-02-0	100	--	--	--	--	--	--	--	< 0.6	< 0.6	1.2 J
Potassium	7440-09-7	--	--	--	--	--	--	--	--	6,510	3,500	2,690
Potassium (Dissolved)	7440-09-7	--	--	--	--	--	--	--	--	1,000	551	637
Selenium	7782-49-2	10	--	--	--	--	--	--	--	< 0.65	< 0.65	< 0.65
Selenium (Dissolved)	7782-49-2	10	--	--	--	--	--	--	--	< 0.65	< 0.65	< 0.65
Silver	7440-22-4	50	--	--	--	--	--	--	--	< 0.17	< 0.17	< 0.17
Silver (Dissolved)	7440-22-4	50	--	--	--	--	--	--	--	< 0.17	< 0.17	< 0.17
Sodium	7440-23-5	20,000	--	--	--	--	--	--	--	14,500	6,230	3,120
Sodium (Dissolved)	7440-23-5	20,000	--	--	--	--	--	--	--	13,100	6,040	2,880
Thallium	7440-28-0	0.5	--	--	--	--	--	--	--	0.29 J	0.17 J	< 0.11
Thallium (Dissolved)	7440-28-0	0.5	--	--	--	--	--	--	--	< 0.11	< 0.11	< 0.11
Vanadium	7440-62-2	--	86	--	--	--	--	--	--	45.7	23.3	16.5
Vanadium (Dissolved)	7440-62-2	--	86	--	--	--	--	--	--	0.26 J	< 0.24	0.28 J
Zinc	7440-66-6	2000	--	--	--	--	--	--	--	227	68	61.8
Zinc (Dissolved)	7440-66-6	2000	--	--	--	--	--	--	--	< 6.2	< 6.2	< 6.2
Mercury	7439-97-6	0.7	--	--	--	--	--	--	--	0.076 J	< 0.05	< 0.05
Mercury (Dissolved)	7439-97-6	0.7	--	--	--	--	--	--	--	< 0.05	< 0.05	< 0.05

Notes:
Report Units are in micrograms per liter (µg/L).
4.2 Result Exceeds New York State Technical and Groundwater Quality Standards (NYS TOGS GWQS) or USEPA Tapwater RSL 2019.
RSL: Regional screening level
USEPA: United States Environmental Protection Agency
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
K2: Continuing calibration verification blank is above the QC limit and the sample result is not detected.
--: Not Applicable

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose					OU3SB01 5/22/2017 OU3SB01-S-0.00-170522 0-0.17 REG	OU3SB02 5/22/2017 OU3SB02-S-0.00-170522 0-0.17 REG	OU3SB03 5/22/2017 OU3SB03-S-0.00-170522 0-0.17 REG	OU3SB04 5/22/2017 OU3SB04-S-0.00-170522 0-0.17 REG	OU3SB05 5/22/2017 OU3SB05-S-0.00-170522 0-0.17 REG
Parameter Name	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential					
Semivolatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.14	< 0.15	< 0.14	< 0.15	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.094	< 0.10	< 0.091	< 0.10	< 0.081
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.024	0.069	< 0.023	< 0.025	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 0.42	< 0.46	< 0.41	< 0.45	< 0.36
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	< 0.009	< 0.01	< 0.009	< 0.01	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	0.017 J	0.78	0.009 J	0.011 J	0.009 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.024	0.053	< 0.023	< 0.025	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.14	< 0.15	< 0.14	< 0.15	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 0.24	< 0.25	< 0.23	< 0.25	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
4-Chloroaniline	106-47-8	0.22	--	100	< 0.047	< 0.051	< 0.046	< 0.05	< 0.04
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.024	0.11	0.049	< 0.025	< 0.02
4-Nitroaniline	100-01-6	--	--	--	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
4-Nitrophenol	100-02-7	0.1	--	--	< 0.24	< 0.25	< 0.23	< 0.25	< 0.2
Acenaphthene	83-32-9	98	20	100	< 0.005	1.4	0.013 J	< 0.005	0.004 J
Acenaphthylene	208-96-8	107	100	100	0.018 J	0.17	0.016 J	0.04	0.023
Acetophenone	98-86-2	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.020
Anthracene	120-12-7	1000	100	100	0.016 J	2.4	0.034	0.026	0.022
Atrazine	1912-24-9	--	--	--	< 0.047	< 0.051	< 0.046	< 0.050	< 0.040
Benzaldehyde	100-52-7	--	--	--	< 0.10 J	< 0.10	< 0.091	< 0.15 J	< 0.081
Benzo(a)anthracene	56-55-3	1	1	1	0.063	2.7	0.074	0.063	0.076
Benzo(a)pyrene	50-32-8	22	1	1	0.071	1.9	0.083	0.076	0.085
Benzo(b)fluoranthene	205-99-2	1.70	1	1	0.12	2.6	0.12	0.1	0.12
Benzo(g,h,i)perylene	191-24-2	1000	100	100	0.058	0.79	0.057	0.055	0.064
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	0.046	1.1	0.047	0.037	0.048
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
bis(2-Ethylhexyl)phthalate	117-81-7	435	--	50	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
Butylbenzylphthalate	85-68-7	122	--	100	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
Caprolactam	105-60-2	--	--	--	< 0.047	< 0.051	< 0.046	< 0.050	< 0.040
Carbazole	86-74-8	--	--	--	< 0.024	1.1	< 0.023	< 0.025	< 0.02
Chrysene	218-01-9	1	1	1	0.09	2.4	0.094	0.088	0.1
Di-n-butylphthalate	84-74-2	8.1	--	100	< 0.094	< 0.1	< 0.091	0.86	< 0.081
Di-n-octylphthalate	117-84-0	120	--	100	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
Dibenz(a,h)anthracene	53-70-3	1000	0.33	0.33	0.012 J	0.33	0.02 J	0.02 J	0.016 J
Dibenzofuran	132-64-9	6.20	7	14	< 0.024	1.3	< 0.023	< 0.025	< 0.02
Diethylphthalate	84-66-2	7.1	--	100	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
Dimethyl phtalate	131-11-3	27	--	100	< 0.094	< 0.1	< 0.091	< 0.1	< 0.081
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	--	--	< 0.024	0.18	< 0.023	< 0.025	< 0.020
Fluoranthene	206-44-0	1000	100	100	0.14	6.4	< 0.005	0.14	0.17
Fluorene	86-73-7	386	30	100	0.006 J	1.3	0.015 J	0.01 J	0.009 J
Hexachlorobenzene	118-74-1	1.4	0.33	0.33	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
Hexachlorocyclopentadiene	77-47-4	--	--	--	< 0.24	< 0.25	< 0.23	< 0.25	< 0.2
Hexachloroethane	67-72-1	--	--	--	< 0.047	< 0.051	< 0.046	< 0.05	< 0.04
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	0.5	0.5	0.047	0.87	0.05	0.047	0.059
Isophorone	78-59-1	4.4	--	100	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
Naphthalene	91-20-3	12	12	100	0.023 J	1.9	0.011 J	0.013 J	0.012 J
Nitrobenzene	98-95-3	0.17	--	3.7	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
p-Chloro-m-cresol	59-50-7	--	--	--	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
Pentachlorophenol	87-86-5	0.8	0.8	2.4	< 0.047	< 0.051	< 0.046	< 0.05	< 0.04
Phenanthrene	85-01-8	1000	100	100	0.072	9	0.12	0.12	0.11
Phenol	108-95-2	0.33	0.33	100	< 0.024	< 0.025	< 0.023	< 0.025	< 0.02
Pyrene	129-00-0	1000	100	100	0.13	5	0.15	0.16	0.17

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose					OU3SB01 5/22/2017 OU3SB01-S-0.00-170522 0-0.17 REG	OU3SB02 5/22/2017 OU3SB02-S-0.00-170522 0-0.17 REG	OU3SB03 5/22/2017 OU3SB03-S-0.00-170522 0-0.17 REG	OU3SB04 5/22/2017 OU3SB04-S-0.00-170522 0-0.17 REG	OU3SB05 5/22/2017 OU3SB05-S-0.00-170522 0-0.17 REG
Parameter Name	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential					
Polychlorinated Biphenyls									
Aroclor 1016	12674-11-2	--	--	--	--	--	--	< 0.0054	--
Aroclor 1221	11104-28-2	--	--	--	--	--	--	< 0.0069	--
Aroclor 1232	11141-16-5	--	--	--	--	--	--	< 0.012	--
Aroclor 1242	53469-21-9	--	--	--	--	--	--	< 0.005	--
Aroclor 1248	12672-29-6	--	--	--	--	--	--	< 0.005	--
Aroclor 1254	11097-69-1	--	--	--	--	--	--	< 0.005	--
Aroclor 1260	11096-82-5	--	--	--	--	--	--	< 0.0074	--
Aroclor 1262	37324-23-5	--	--	--	--	--	--	< 0.005	--
Aroclor 1268	11100-14-4	--	--	--	--	--	--	< 0.005	--
Pesticides									
4,4-DDD	72-54-8	14	0.0033	2.6	--	--	--	< 0.0012	--
4,4-DDE	72-55-9	17	0.0033	1.8	--	--	--	0.011	--
4,4-DDT	50-29-3	136	0.0033	1.7	--	--	--	0.004	--
Aldrin	309-00-2	0.19	0.005	0.019	--	--	--	< 0.00026	--
alpha BHC	319-84-6	0.02	0.02	0.097	--	--	--	< 0.00026	--
alpha Chlordane	5103-71-9	2.9	0.094	0.91	--	--	--	< 0.00026	--
beta BHC	319-85-7	0.09	0.036	0.072	--	--	--	< 0.00045	--
delta BHC	319-86-8	0.25	0.04	100	--	--	--	< 0.00068	--
DIELDRIN	60-57-1	0.1	0.005	0.039	--	--	--	< 0.0005	--
Endosulfan I	959-98-8	102	2.4	4.8	--	--	--	0.0013 P	--
Endosulfan II	33213-65-9	102	2.4	4.8	--	--	--	< 0.0005	--
ENDOSULFAN SULFATE	1031-07-8	1000	2.4	4.8	--	--	--	< 0.0005	--
ENDRIN	72-20-8	0.06	0.014	2.2	--	--	--	< 0.00061	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	< 0.0005	--
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	< 0.0009	--
gamma BHC (Lindane)	58-89-9	0.1	0.1	0.28	--	--	--	< 0.00026	--
gamma Chlordane	5103-74-2	14	--	0.54	--	--	--	0.0023	--
HEPTACHLOR	76-44-8	0.38	0.042	0.42	--	--	--	< 0.00026	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	--	--	--	< 0.00026	--
METHOXYCHLOR	72-43-5	900	--	100	--	--	--	< 0.0026	--
TOXAPHENE	8001-35-2	--	--	--	--	--	--	< 0.021	--
Metals									
Aluminum	7429-90-5	--	--	--	17,400	19,300	16,200	16,700	16,000
Antimony	7440-36-0	--	--	--	0.344 J	0.286 J	0.372 J	0.284 J	0.207 J
Arsenic	7440-38-2	16	13	16	8.52	7.4	7.75	6.96	6.22
Barium	7440-39-3	820	350	350	82.3	84	79.5	80.2	87.7
Beryllium	7440-41-7	47	7.2	14	0.776	0.879	0.767	0.656	0.782
Cadmium	7440-43-9	7.50	2.5	2.5	0.154 J	0.140 J	0.265	0.179 J	0.176 J
Calcium	7440-70-2	--	--	--	715	606	656	1,470	875
Chromium	7440-47-3	--	30	36	18.6	20	18.3	19	18.1
Cobalt	7440-48-4	--	--	30	8.88	11.4	9.65	10.4	8.95
Copper	7440-50-8	1720	50	270	18.3	24.1	20.8	23.6	15.9
Iron	7439-89-6	--	--	2000	21,600	24,000	22,500	23,900	19,300
Lead	7439-92-1	450	63	400	40.7	53.1	45.2	50.3	58.5
Magnesium	7439-95-4	--	--	--	4,020	4,190	4,120	4,520	3,480
Manganese	7439-96-5	2000	1600	2000	782	809	679	803	1,250
Nickel	7440-02-0	130	30	140	22.8	21.2	22.2	22.5	19.7
Potassium	7440-09-7	--	--	--	1,340	1,440	1,290	1,220	1,260
Selenium	7782-49-2	4	3.9	36	0.588 J	0.579 J	0.502 J	0.505 J	0.492 J
Silver	7440-22-4	8.3	2	36	0.129 J	0.125 J	0.0930 J	0.0868 J	0.117 J
Sodium	7440-23-5	--	--	--	70.3 J	101 J	59.2 J	207	68.6 J
Thallium	7440-28-0	--	--	--	0.179 J	0.221 J	0.172 J	0.159 J	0.179 J
Vanadium	7440-62-2	--	--	100	48	45.4	38.3	43.4	37.9
Zinc	7440-66-6	2480	109	2200	80.3	92.5	89.7	78.2	78.4
Mercury	7439-97-6	0.73	0.18	0.81	0.16	0.113 J	0.217	0.113 J	0.114 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
< : Not detected at the laboratory method detection limit.
J : Result detected between the reporting limit and the method detection limit.
Underline: Exceeds PGW SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB01 5/22/2017 OU3SB01-S-0.17-170522 0.17-0.5 REG	OU3SB01 5/22/2017 OU3SB01-S-0.50-170522 0.5-1 REG	OU3SB01 5/22/2017 OU3SB01-S-1.00-170522 1-2 REG	OU3SB02 5/22/2017 OU3SB02-S-0.17-170522 0.17-0.5 REG	OU3SB02 5/22/2017 OU3SB02-S-0.50-170522 0.5-1 REG	OU3SB02 5/22/2017 OU3SB02-S-1.00-170522 1-2 REG	OU3SB03 5/22/2017 OU3SB03-S-0.17-170522 0.17-0.5 REG	OU3SB03 5/22/2017 OU3SB03-S-0.50-170522 0.5-1 REG	OU3SB03 5/22/2017 OU3SB03-S-1.00-170522 1-2 REG	OU3SB04 5/22/2017 OU3SB04-S-0.17-170522 0.17-0.5 REG
Volatile Organic Compounds														
1,1 Dichloroethene	75-35-4	0.33	0.33	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	35	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	100	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
1,1-Dichloroethane	75-34-3	0.27	0.27	19	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,2,3-Trichlorobenzene	87-61-6	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,2,4-Trichlorobenzene	120-82-1	3.4	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	1.1	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,2-Dichloroethane	107-06-2	0.02	0.02	2.3	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,2-Dichloropropane	78-87-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,3-Dichlorobenzene	541-73-1	2.4	2.4	17	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
1,4-Dichlorobenzene	106-46-7	1.8	1.8	9.8	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	0.12	100	--	--	--	--	--	--	< 0.004	< 0.004	< 0.004	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--	< 0.003	< 0.003	< 0.003	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--	< 0.003	< 0.003	< 0.003	--
Acetone	67-64-1	0.05	0.05	100	--	--	--	--	--	--	0.047	0.053	0.051	--
Benzene	71-43-2	0.06	0.06	2.9	--	--	--	--	--	--	< 0.0006	< 0.0005	< 0.0005	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
Carbon disulfide	75-15-0	2.7	--	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Carbon Tetrachloride	56-23-5	0.76	0.76	1.4	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Chlorobenzene	108-90-7	1.1	1.1	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
Chloroform	67-66-3	0.37	0.37	10	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	59	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Dibromochloromethane	124-48-1	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Ethylbenzene	100-41-4	1	1	30	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Isopropylbenzene	98-82-8	2.3	--	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
Methyl-t-butyl ether	1634-04-4	0.93	0.93	62	--	--	--	--	--	--	< 0.0006	< 0.0005	< 0.0005	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	0.05	51	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Styrene	100-42-5	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--	< 0.022	< 0.019	< 0.019	--
Tetrachloroethene	127-18-4	1.3	1.3	5.5	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Toluene	108-88-3	0.7	0.7	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	0.47	10	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--	< 0.002	< 0.002	< 0.002	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	0.02	0.21	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--
Xylene (total)	1330-20-7	1.60	0.26	100	--	--	--	--	--	--	< 0.001	< 0.001	< 0.001	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB01 5/22/2017 OU3SB01-S-0.17-170522 0.17-0.5 REG	OU3SB01 5/22/2017 OU3SB01-S-0.50-170522 0.5-1 REG	OU3SB01 5/22/2017 OU3SB01-S-1.00-170522 1-2 REG	OU3SB02 5/22/2017 OU3SB02-S-0.17-170522 0.17-0.5 REG	OU3SB02 5/22/2017 OU3SB02-S-0.50-170522 0.5-1 REG	OU3SB02 5/22/2017 OU3SB02-S-1.00-170522 1-2 REG	OU3SB03 5/22/2017 OU3SB03-S-0.17-170522 0.17-0.5 REG	OU3SB03 5/22/2017 OU3SB03-S-1.00-170522 0.5-1 REG	OU3SB03 5/22/2017 OU3SB03-S-1.00-170522 1-2 REG	OU3SB04 5/22/2017 OU3SB04-S-0.17-170522 0.17-0.5 REG
Semivolatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.12	< 0.12	< 0.12	< 0.14	< 0.12	< 0.12	< 0.13	< 0.11	< 0.12	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.082	< 0.080	< 0.080	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.080	< 0.083
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 0.37	< 0.36	< 0.36	< 0.42	< 0.37	< 0.35	< 0.38	< 0.34	< 0.36	< 0.37
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2-Chloronaphthalene	91-58-7	--	--	--	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	0.009 J	< 0.004	< 0.004	0.008 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.004 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.12	< 0.12	< 0.12	< 0.14	< 0.12	< 0.12	< 0.13	< 0.11	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 0.21	< 0.2	< 0.2	< 0.23	< 0.21	< 0.2	< 0.21	< 0.19	< 0.2	< 0.21
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
4-Chloroaniline	106-47-8	0.22	--	100	< 0.041	< 0.04	< 0.04	< 0.046	< 0.041	< 0.039	< 0.043	< 0.038	< 0.04	< 0.041
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
4-Nitroaniline	100-01-6	--	--	--	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
4-Nitrophenol	100-02-7	0.1	--	--	< 0.21	< 0.2	< 0.2	< 0.23	< 0.21	< 0.2	< 0.21	< 0.19	< 0.2	< 0.21
Acenaphthene	83-32-9	98	20	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	100	100	0.01 J	< 0.004	< 0.004	0.015 J	0.007 J	< 0.004	< 0.004	< 0.004	< 0.004	0.015 J
Acetophenone	98-86-2	--	--	--	< 0.021	< 0.020	< 0.020	< 0.023	< 0.021	< 0.020	< 0.021	< 0.019	< 0.020	< 0.021
Anthracene	120-12-7	1000	100	100	0.008 J	< 0.004	< 0.004	0.021 J	0.01 J	< 0.004	0.008 J	< 0.004	< 0.004	0.01 J
Atrazine	1912-24-9	--	--	--	< 0.041	< 0.040	< 0.040	< 0.046	< 0.041	< 0.039	< 0.043	< 0.038	< 0.040	< 0.041
Benzaldehyde	100-52-7	--	--	--	0.093 J	< 0.080	< 0.080	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.080	< 0.083
Benzo(a)anthracene	56-55-3	1	1	1	0.029	< 0.004	0.011 J	0.081	0.039	0.007 J	0.024	< 0.004	< 0.004	0.028
Benzo(a)pyrene	50-32-8	22	1	1	0.034	0.005 J	0.015 J	0.08	0.042	0.007 J	0.028	0.004 J	< 0.004	0.033
Benzo(b)fluoranthene	205-99-2	1.70	1	1	0.058	0.007 J	0.021	0.13	0.059	0.01 J	0.043	0.005 J	< 0.004	0.043
Benzo(g,h,i)perylene	191-24-2	1000	100	100	0.026	< 0.004	0.01 J	0.061	0.03	0.005 J	0.019 J	< 0.004	< 0.004	0.024
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	0.015 J	< 0.004	0.006 J	0.041	0.026	< 0.004	0.015 J	< 0.004	< 0.004	0.019 J
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
bis(2-Chloroethyl) ether	111-44-4	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
bis(2-Ethylhexyl)phthalate	117-81-7	435	--	50	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
Butylbenzylphthalate	85-68-7	122	--	100	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
Caprolactam	105-60-2	--	--	--	< 0.041	< 0.040	< 0.040	< 0.046	< 0.041	< 0.039	< 0.043	< 0.038	< 0.040	< 0.041
Carbazole	86-74-8	--	--	--	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
Chrysene	218-01-9	1	1	1	0.043	0.006 J	0.013 J	0.093	0.048	0.008 J	0.036	0.0		

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB01 5/22/2017 OU3SB01-S-0.17-170522 0.17-0.5 REG	OU3SB01 5/22/2017 OU3SB01-S-0.50-170522 0.5-1 REG	OU3SB01 5/22/2017 OU3SB01-S-1.00-170522 1-2 REG	OU3SB02 5/22/2017 OU3SB02-S-0.17-170522 0.17-0.5 REG	OU3SB02 5/22/2017 OU3SB02-S-0.50-170522 0.5-1 REG	OU3SB02 5/22/2017 OU3SB02-S-1.00-170522 1-2 REG	OU3SB03 5/22/2017 OU3SB03-S-0.17-170522 0.17-0.5 REG	OU3SB03 5/22/2017 OU3SB03-S-0.50-170522 0.5-1 REG	OU3SB03 5/22/2017 OU3SB03-S-1.00-170522 1-2 REG	OU3SB04 5/22/2017 OU3SB04-S-0.17-170522 0.17-0.5 REG
Polychlorinated Biphenyls														
Aroclor 1016	12674-11-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0045
Aroclor 1221	11104-28-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0057
Aroclor 1232	11141-16-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0099
Aroclor 1242	53469-21-9	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0041
Aroclor 1248	12672-29-6	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0041
Aroclor 1254	11097-69-1	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0041
Aroclor 1260	11096-82-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0061
Aroclor 1262	37324-23-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0041
Aroclor 1268	11100-14-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0041
Pesticides														
4,4-DDD	72-54-8	14	0.0033	2.6	--	--	--	--	--	--	--	--	--	< 0.00041
4,4-DDE*	72-55-9	17	0.0033	1.8	--	--	--	--	--	--	--	--	--	0.0083
4,4-DDT	50-29-3	136	0.0033	1.7	--	--	--	--	--	--	--	--	--	0.0021
Aldrin	309-00-2	0.19	0.005	0.019	--	--	--	--	--	--	--	--	--	< 0.00021
alpha BHC	319-84-6	0.02	0.02	0.097	--	--	--	--	--	--	--	--	--	< 0.00021
alpha Chlordane	5103-71-9	2.9	0.094	0.91	--	--	--	--	--	--	--	--	--	0.0053
beta BHC	319-85-7	0.09	0.036	0.072	--	--	--	--	--	--	--	--	--	< 0.00037
delta BHC	319-86-8	0.25	0.04	100	--	--	--	--	--	--	--	--	--	< 0.00055
DIELDRIN	60-57-1	0.1	0.005	0.039	--	--	--	--	--	--	--	--	--	< 0.00041
Endosulfan I	959-98-8	102	2.4	4.8	--	--	--	--	--	--	--	--	--	0.00072 J
Endosulfan II	33213-65-9	102	2.4	4.8	--	--	--	--	--	--	--	--	--	< 0.00041
ENDOSULFAN SULFATE	1031-07-8	1000	2.4	4.8	--	--	--	--	--	--	--	--	--	< 0.00041
ENDRIN	72-20-8	0.06	0.014	2.2	--	--	--	--	--	--	--	--	--	< 0.00041
ENDRIN ALDEHYDE	7421-93-4	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00041
ENDRIN KETONE	53494-70-5	--	--	--	--	--	--	--	--	--	--	--	--	< 0.00074
gamma BHC (Lindane)	58-89-9	0.1	0.1	0.28	--	--	--	--	--	--	--	--	--	< 0.00021
gamma Chlordane	5103-74-2	14	--	0.54	--	--	--	--	--	--	--	--	--	0.0014
HEPTACHLOR	76-44-8	0.38	0.042	0.42	--	--	--	--	--	--	--	--	--	< 0.00021
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	--	--	--	--	--	--	--	--	--	< 0.00021
METHOXYCHLOR	72-43-5	900	--	100	--	--	--	--	--	--	--	--	--	< 0.0021
TOXAPHENE	8001-35-2	--	--	--	--	--	--	--	--	--	--	--	--	< 0.017
Metals														
Aluminum	7429-90-5	--	--	--	13,900	18,300	18,700	20,600	20,600	19,200	16,800	18,300	19,000	19,100
Antimony	7440-36-0	--	--	--	0.173 J	0.141 J	0.158 J	0.226 J	0.204 J	0.119 J	0.324 J	0.199 J	0.148 J	0.177 J
Arsenic	7440-38-2	16	13	16	5.59	6.08	6.68	6.94	6.52	6.87	7.61	6.68	6.23	6.22
Barium	7440-39-3	820	350	350	52.8	61.8	67	83.3	83.9	82.9	72	69.1	80.5	67.1
Beryllium	7440-41-7	47	7.2	14	0.603	0.777	0.813	0.96	0.933	0.845	0.785	0.795	0.797	0.702
Cadmium	7440-43-9	7.50	2.5	2.5	0.0689 J	0.0876 J	0.0913 J	0.121 J	0.104 J	0.0561 J	0.182 J	0.0901 J	0.0942 J	0.0880 J
Calcium	7440-70-2	--	--	--	292	269	256	339	339	266	419	228	281	782
Chromium	7440-47-3	--	30	36	14.1	20.1	21.5	21.3	20.9	21.6	18.3	20.8	21.1	20.7
Cobalt	7440-48-4	--	--	30	6.8	12.8	12.5	12.2	11.1	11.5	8.8	11.2	11.4	11.5
Copper	7440-50-8	1720	50	270	11.8	16.5	20.3	21.8	20.7	24.7	24.9	24.2	23.1	20.3
Iron	7439-89-6	--	--	2000	17,500	28,400	30,100	28,900	26,800	30,700	23,400	28,900	27,700	26,000
Lead	7439-92-1	450	63	400	19.2	18.1	16.9	40	21.9	17.3	34.9	16	13	27.8
Magnesium	7439-95-4	--	--	--	3,040	4,950	5,450	4,950	4,730	5,410	4,140	4,900	5,110	4,870
Manganese	7439-96-5	2000	1600	2000	456	725	672	937	673	674	532	561	584	720
Nickel	7440-02-0	130	30	140	14.9	23.7	24.9	23.3	21.9	25.9	21.1	23.7	25.7	22.2
Potassium	7440-09-7	--	--	--	993	1,250	1,570	1,440	1,560	1,730	1,340	1,810	1,950	1,460
Selenium	7782-49-2	4	3.9	36	0.344 J	0.367 J	0.380 J	0.534 J	0.471 J	0.301 J	0.472 J	0.334 J	0.246 J	0.489 J
Silver	7440-22-4	8.3	2	36	0.0646 J	0.0351 J	< 0.0278	0.0849 J	0.0670 J	< 0.0281	0.0769 J	0.0353 J	< 0.0220	0.0509 J
Sodium	7440-23-5	--	--	--	47.6 J	45.0 J	56.5 J	90.8 J	94.5 J	86.6 J	65.6 J	66.5 J	71.0 J	453
Thallium	7440-28-0	--	--	--	0.110 J	0.116 J	0.126 J	0.188 J	0.190 J	0.142 J	0.159 J	0.133 J	0.121 J	0.188 J
Vanadium	7440-62-2	--	--	100	23.5	26.3	27.4	36.3	29.9	26.8	32.3	26.4	25.4	31.4
Zinc	7440-66-6	2480	109	2200	55.4	76.6	77	94.1	87.1	81.4	88.1	73.6	80.4	74.4
Mercury	7439-97-6	0.73	0.18	0.81	0.0945 J	0.0599 J	0.0496 J	0.120 J	0.0713 J	0.0355 J	0.173	0.0467 J	0.0415 J	0.0665 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
< : Not detected at the laboratory method detection limit.
E: Concentration exceeds calibration range.
J : Result detected between the reporting limit and the method detection limit.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and evident interference.
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB04 5/22/2017 OU3SB04-S-0.50-170522 0.5-1 REG	OU3SB04 5/22/2017 OU3SB04-S-1.00-170522 1-2 REG	OU3SB04 5/22/2017 OU3SB04-SD-0.17- 0.17-0.5 FD	OU3SB05 5/22/2017 OU3SB05-S-0.17-170522 0.17-0.5 REG	OU3SB05 5/22/2017 OU3SB05-S-0.50-170522 0.5-1 REG	OU3SB05 5/22/2017 OU3SB05-S-1.00-170522 1-2 REG
Volatile Organic Compounds										
1,1 Dichloroethene	75-35-4	0.33	0.33	100	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	35	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	--	--	--	--	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	100	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	0.27	0.27	19	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	3.4	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	106-93-4	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	1.1	100	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	0.02	0.02	2.3	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	2.4	2.4	17	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	1.8	1.8	9.8	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	0.12	100	--	--	--	--	--	--
2-Hexanone	591-78-6	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	1	--	--	--	--	--	--	--	--
Acetone	67-64-1	0.05	0.05	100	--	--	--	--	--	--
Benzene	71-43-2	0.06	0.06	2.9	--	--	--	--	--	--
Bromochloromethane	74-97-5	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	--	--	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	74-83-9	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	2.7	--	100	--	--	--	--	--	--
Carbon Tetrachloride	56-23-5	0.76	0.76	1.4	--	--	--	--	--	--
Chlorobenzene	108-90-7	1.1	1.1	100	--	--	--	--	--	--
Chloroethane	75-00-3	1.9	--	--	--	--	--	--	--	--
Chloroform	67-66-3	0.37	0.37	10	--	--	--	--	--	--
Chloromethane (Methyl chloride)	74-87-3	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	59	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	--	--	--	--	--
Cyclohexane	110-82-7	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	--	--	--	--	--	--
Diisopropyl ether	108-20-3	--	--	--	--	--	--	--	--	--
Ethyl-t-butylether	637-92-3	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	1	1	30	--	--	--	--	--	--
Isopropylbenzene	98-82-8	2.3	--	100	--	--	--	--	--	--
m,p-Xylenes	XYLENES-MP	--	--	--	--	--	--	--	--	--
Methyl acetate	79-20-9	--	--	--	--	--	--	--	--	--
Methyl-t-butyl ether	1634-04-4	0.93	0.93	62	--	--	--	--	--	--
Methylcyclohexane	108-87-2	--	--	--	--	--	--	--	--	--
Methylene chloride (Dichloromethane)	75-09-2	0.05	0.05	51	--	--	--	--	--	--
o-Xylene	95-47-6	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether	994-05-8	--	--	--	--	--	--	--	--	--
Tertiary Butyl Alcohol	75-65-0	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	1.3	1.3	5.5	--	--	--	--	--	--
Toluene	108-88-3	0.7	0.7	100	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	79-01-6	0.47	0.47	10	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	--
Vinyl chloride (Chloroethene)	75-01-4	0.02	0.02	0.21	--	--	--	--	--	--
Xylene (total)	1330-20-7	1.60	0.26	100	--	--	--	--	--	--

Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB04 5/22/2017 OU3SB04-S-0.50-170522 0.5-1 REG	OU3SB04 5/22/2017 OU3SB04-SD-0.17-170522 1-2 REG	OU3SB04 5/22/2017 OU3SB04-SD-0.17- 0.17-0.5 FD	OU3SB05 5/22/2017 OU3SB05-S-0.17-170522 0.17-0.5 REG	OU3SB05 5/22/2017 OU3SB05-S-0.50-170522 0.5-1 REG	OU3SB05 5/22/2017 OU3SB05-S-1.00-170522 1-2 REG
Semivolatile Organic Compounds										
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.079	< 0.082	< 0.079	< 0.081	< 0.080	< 0.079
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 0.36	< 0.37	< 0.35	< 0.37	< 0.36	< 0.36
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Chloronaphthalene	91-58-7	--	--	--	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	< 0.004	< 0.004	0.004 J	0.005 J	< 0.004	< 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
3-Nitroaniline	99-09-2	0.5	--	--	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
4-Chloroaniline	106-47-8	0.22	--	100	< 0.04	< 0.041	< 0.039	< 0.041	< 0.04	< 0.04
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
4-Nitroaniline	100-01-6	--	--	--	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
4-Nitrophenol	100-02-7	0.1	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Acenaphthene	83-32-9	98	20	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	100	100	0.01 J	0.006 J	0.015 J	0.016 J	0.006 J	< 0.004
Acetophenone	98-86-2	--	--	--	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Anthracene	120-12-7	1000	100	100	0.008 J	< 0.004	0.009 J	0.013 J	0.004 J	< 0.004
Atrazine	1912-24-9	--	--	--	< 0.040	< 0.041	< 0.039	< 0.041	< 0.040	< 0.040
Benzaldehyde	100-52-7	--	--	--	< 0.079	< 0.082	< 0.079	< 0.081	< 0.080	< 0.079
Benzo(a)anthracene	56-55-3	1	1	1	0.019 J	0.008 J	0.025	0.041	0.012 J	< 0.004
Benzo(a)pyrene	50-32-8	22	1	1	0.019 J	0.012 J	0.031	0.045	0.013 J	0.004 J
Benzo(b)fluoranthene	205-99-2	1.70	1	1	0.031	0.015 J	0.041	0.072	0.02 J	0.006 J
Benzo(g,h,i)perylene	191-24-2	1000	100	100	0.018 J	0.01 J	0.024	0.037	0.012 J	< 0.004
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	0.011 J	0.008 J	0.015 J	0.028	0.008 J	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
bis(2-Chloroethyl) ether	111-44-4	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
bis(2-Ethylhexyl)phthalate	117-81-7	435	--	50	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
Butylbenzylphthalate	85-68-7	122	--	100	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
Caprolactam	105-60-2	--	--	--	< 0.040	< 0.041	< 0.039	< 0.041	< 0.040	< 0.040
Carbazole	86-74-8	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chrysene	218-01-9	1	1	1	0.027	0.014 J	0.039	0.058	0.016 J	0.005 J
Di-n-butylphthalate	84-74-2	8.1	--	100	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
Di-n-octylphthalate	117-84-0	120	--	100	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
Dibenz(a,h)anthracene	53-70-3	1000	0.33	0.33	< 0.004	< 0.004	0.006 J	0.008 J	< 0.004	< 0.004
Dibenzofuran	132-64-9	6.20	7	14	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Diethylphthalate	84-66-2	7.1	--	100	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
Dimethyl phthalate	131-11-3	27	--	100	< 0.079	< 0.082	< 0.079	< 0.081	< 0.08	< 0.079
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	--	--	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Fluoranthene	206-44-0	1000	100	100	0.037	0.02 J	0.051	0.09	0.021	0.006 J
Fluorene	86-73-7	386	30	100	< 0.004	< 0.004	0.006 J	0.005 J	< 0.004	< 0.004
Hexachlorobenzene	118-74-1	1.4	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Hexachlorocyclopentadiene	77-47-4	--	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachloroethane	67-72-1	--	--	--	< 0.04	< 0.041	< 0.039	< 0.041	< 0.04	< 0.04
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	0.5	0.5	0.013 J	0.009 J	0.017 J	0.031	0.009 J	< 0.004
Isophorone	78-59-1	4.4	--	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Naphthalene	91-20-3	12	12	100	0.005 J	< 0.004	0.007 J	0.007 J	< 0.004	< 0.004
Nitrobenzene	98-95-3	0.17	--	3.7	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p-Chloro-m-cresol	59-50-7	--	--	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Pentachlorophenol	87-86-5	0.8	0.8	2.4	< 0.04	< 0.041	< 0.039	< 0.041	< 0.04	< 0.04
Phenanthrene	85-01-8	1000	100	100	0.033	0.016 J	0.05	0.066	0.016 J	< 0.004
Phenol	108-95-2	0.33	0.33	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Pyrene	129-00-0	1000	100	100	0.047	0.025	0.065	0.1	0.025	0.008 J

Parameter Name	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB04 5/22/2017 OU3SB04-S-0.50-170522 0.5-1 REG	OU3SB04 5/22/2017 OU3SB04-S-1.00-170522 1-2 REG	OU3SB04 5/22/2017 OU3SB04-SD-0.17- 0.17-0.5 FD	OU3SB05 5/22/2017 OU3SB05-S-0.17-170522 0.17-0.5 REG	OU3SB05 5/22/2017 OU3SB05-S-0.50-170522 0.5-1 REG	OU3SB05 5/22/2017 OU3SB05-S-1.00-170522 1-2 REG
Polychlorinated Biphenyls											
Aroclor 1016		12674-11-2	--	--	--	< 0.0043	< 0.0044	< 0.0043	--	--	--
Aroclor 1221		11104-28-2	--	--	--	< 0.0054	< 0.0056	< 0.0055	--	--	--
Aroclor 1232		11141-16-5	--	--	--	< 0.0095	< 0.0098	< 0.0095	--	--	--
Aroclor 1242		53469-21-9	--	--	--	< 0.0039	< 0.0041	< 0.0039	--	--	--
Aroclor 1248		12672-29-6	--	--	--	< 0.0039	< 0.0041	< 0.0039	--	--	--
Aroclor 1254		11097-69-1	--	--	--	< 0.0039	< 0.0041	< 0.0039	--	--	--
Aroclor 1260		11096-82-5	--	--	--	< 0.0058	< 0.006	< 0.0058	--	--	--
Aroclor 1262		37324-23-5	--	--	--	< 0.0039	< 0.0041	< 0.0039	--	--	--
Aroclor 1268		11100-14-4	--	--	--	< 0.0039	< 0.0041	< 0.0039	--	--	--
Pesticides											
4,4-DDD		72-54-8	14	0.0033	2.6	< 0.00039	< 0.00041	< 0.00039	--	--	--
4,4-DDE*		72-55-9	17	0.0033	1.8	0.0037	0.0019 J	0.0067	--	--	--
4,4-DDT		50-29-3	136	0.0033	1.7	0.00079 J	0.00052 J	0.0022	--	--	--
Aldrin		309-00-2	0.19	0.005	0.019	< 0.0002	< 0.00021	< 0.0002	--	--	--
alpha BHC		319-84-6	0.02	0.02	0.097	< 0.0002	< 0.00021	< 0.0002	--	--	--
alpha Chlordane		5103-71-9	2.9	0.094	0.91	0.0033	0.002	< 0.0002	--	--	--
beta BHC		319-85-7	0.09	0.036	0.072	< 0.00036	< 0.00037	< 0.00036	--	--	--
delta BHC		319-86-8	0.25	0.04	100	< 0.00054	< 0.00056	< 0.00054	--	--	--
DIELDRIN		60-57-1	0.1	0.005	0.039	< 0.00039	< 0.00041	< 0.00039	--	--	--
Endosulfan I		959-98-8	102	2.4	4.8	< 0.00048 V	< 0.00027	0.00064 J	--	--	--
Endosulfan II		33213-65-9	102	2.4	4.8	< 0.00039	< 0.00041	< 0.00039	--	--	--
ENDOSULFAN SULFATE		1031-07-8	1000	2.4	4.8	< 0.00039	< 0.00041	< 0.00039	--	--	--
ENDRIN		72-20-8	0.06	0.014	2.2	< 0.00039	< 0.00041	< 0.00039	--	--	--
ENDRIN ALDEHYDE		7421-93-4	--	--	--	< 0.00039	< 0.00041	< 0.00039	--	--	--
ENDRIN KETONE		53494-70-5	--	--	--	< 0.00072	< 0.00074	< 0.00072	--	--	--
gamma BHC (Lindane)		58-89-9	0.1	0.1	0.28	< 0.0002	< 0.00021	< 0.0002	--	--	--
gamma Chlordane		5103-74-2	14	--	0.54	0.0009 J	0.0005 J	0.0017	--	--	--
HEPTACHLOR		76-44-8	0.38	0.042	0.42	< 0.0002	< 0.00021	< 0.00038 V	--	--	--
HEPTACHLOR EPOXIDE		1024-57-3	0.02	--	0.077	< 0.0002	< 0.00021	< 0.0002	--	--	--
METHOXYCHLOR		72-43-5	900	--	100	< 0.002	< 0.0021	< 0.002	--	--	--
TOXAPHENE		8001-35-2	--	--	--	< 0.017	< 0.017	< 0.017	--	--	--
Metals											
Aluminum		7429-90-5	--	--	--	16,400	18,900	12,000	16,300	18,900	22,500
Antimony		7440-36-0	--	--	--	0.123 J	0.167 J	0.113 J	0.0998 J	0.162 J	0.192 J
Arsenic		7440-38-2	16	13	16	6.23	8.23	5.1	5.51	7.06	6.99
Barium		7440-39-3	820	350	350	52.5	65.5	44.8	64.7	86.1	98.6
Beryllium		7440-41-7	47	7.2	14	0.706	0.812	0.471	0.873	0.868	1.01
Cadmium		7440-43-9	7.50	2.5	2.5	0.0984 J	0.0676 J	0.0678 J	0.120 J	0.148 J	0.0870 J
Calcium		7440-70-2	--	--	--	464	350	516	386	529	448
Chromium		7440-47-3	--	30	36	18.1	22.6	13.8	20	18.7	26.6
Cobalt		7440-48-4	--	--	30	13.1	20.7	7.8	18.1	16.4	14.8
Copper		7440-50-8	1720	50	270	21.6	30.9	13.7	18.9	24.9	25.4
Iron		7439-89-6	--	--	2000	28,700	33,900	18,200	34,900	26,500	34,900 E
Lead		7439-92-1	450	63	400	21.1	21.2	20.7	30	26.3	18.5
Magnesium		7439-95-4	--	--	--	4,840	5,750	3,150	5,630	5,940	6,660
Manganese		7439-96-5	2000	1600	2000	731	996	443	1,580	1,170 E	923 E
Nickel		7440-02-0	130	30	140	23.6	27.5	15.3	26	32.8	31.2
Potassium		7440-09-7	--	--	--	1,090	1,680	756	715	1,300	1,890
Selenium		7782-49-2	4	3.9	36	0.394 J	0.380 J	0.358 J	0.329 J	0.400 J	0.447 J
Silver		7440-22-4	8.3	2	36	0.0283 J	< 0.0216	0.0436 J	0.0362 J	0.0470 J	0.0247 J
Sodium		7440-23-5	--	--	--	332	246	324	62.7 J	232	225
Thallium		7440-28-0	--	--	--	0.114 J	0.127 J	0.111 J	0.0873 J	0.132 J	0.159 J
Vanadium		7440-62-2	--	--	100	24.6	27.6	21.5	25.3	29.9	32.8
Zinc		7440-66-6	2480	109	2200	71.4	75.5	51.1	70.7	81.7	85
Mercury		7439-97-6	0.73	0.18	0.81	0.0362 J	0.0209 J	0.0520 J	0.0902 J	0.0665 J	0.0513 J

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
< : Not detected at the laboratory method detection limit.
E: Concentration exceeds calibration range.
J : Result detected between the reporting limit and the method detection limit.
V: Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to thus disparity and evident interference.
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Parameter Name	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB02 11/13/2018 OU3SB02-S-10.00-10-12 REG	OU3SB02 11/13/2018 OU3SB02-S-14.00-14-16 REG	OU3SB02 11/13/2018 OU3SB02-S-2.00-181113 2-4 REG	OU3SB05 11/13/2018 OU3SB05-S-12.00-12-14 REG	OU3SB05 11/13/2018 OU3SB05-S-6.00-181113 6-8 REG
Volatile Organic Compounds									
1,1-Dichloroethene	75-35-4	0.33	0.33	100	< 0.0005	< 0.0004	< 0.0005	--	--
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
1,1,2,2-Tetrachloroethane	79-34-5	0.6	--	35	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
1,1,2-Trichloroethane	79-00-5	--	--	--	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	--	100	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
1,1-Dichloroethane	75-34-3	0.27	0.27	19	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
1,2,3-Trichlorobenzene	87-61-6	--	--	--	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004
1,2,4-Trichlorobenzene	120-82-1	3.4	--	--	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	--	--	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
1,2-Dibromoethane	106-93-4	--	--	--	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.1	1.1	100	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
1,2-Dichloroethane	107-06-2	0.02	0.02	2.3	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
1,2-Dichloropropane	78-87-5	--	--	--	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
1,3-Dichlorobenzene	541-73-1	2.4	2.4	17	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
1,4-Dichlorobenzene	106-46-7	1.8	1.8	9.8	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
2-Butanone (Methyl ethyl ketone)	78-93-3	0.3	0.12	100	< 0.0009	0.001 J	0.003 J	< 0.0008	< 0.0009
2-Hexanone	591-78-6	--	--	--	< 0.0009	< 0.0008	< 0.001	< 0.0008	< 0.0009
4-Methyl-2-pentanone	108-10-1	1	--	--	< 0.0009	< 0.0008	< 0.001	< 0.0008	< 0.0009
Acetone	67-64-1	0.05	0.05	100	0.013 J	0.015 J	0.079	0.017	0.028
Benzene	71-43-2	0.06	0.06	2.9	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Bromochloromethane	74-97-5	--	--	--	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
Bromodichloromethane	75-27-4	--	--	--	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
Bromoform	75-25-2	--	--	--	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004
Bromomethane (Methyl bromide)	74-83-9	--	--	--	< 0.0007	< 0.0006	< 0.0008	< 0.0006	< 0.0006
Carbon disulfide	75-15-0	2.7	--	100	0.0009 J	< 0.0005	< 0.0006	< 0.0005	< 0.0005
Carbon Tetrachloride	56-23-5	0.76	0.76	1.4	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Chlorobenzene	108-90-7	1.1	1.1	100	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Chloroethane	75-00-3	1.9	--	--	< 0.0009	< 0.0008	< 0.001	< 0.0008	< 0.0009
Chloroform	67-66-3	0.37	0.37	10	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
Chloromethane (Methyl chloride)	74-87-3	--	--	--	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	59	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
cis-1,3-Dichloropropene	10061-01-5	--	--	--	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
Cyclohexane	110-82-7	--	--	--	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Dibromochloromethane	124-48-1	--	--	--	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
Dichlorodifluoromethane (Freon 12)	75-71-8	--	--	--	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
Diisopropyl ether	108-20-3	--	--	--	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Ethyl-t-butylether	637-92-3	--	--	--	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Ethylbenzene	100-41-4	1	1	30	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
Isopropylbenzene	98-82-8	2.3	--	100	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
m,p-Xylenes	XYLENES-MP	--	--	--	< 0.0009	< 0.0008	< 0.001	< 0.0008	< 0.0009
Methyl acetate	79-20-9	--	--	--	< 0.0009	< 0.0008	< 0.001	< 0.0008	< 0.0009
Methyl-t-butyl ether	1634-04-4	0.93	0.93	62	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Methylcyclohexane	108-87-2	--	--	--	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
Methylene chloride (Dichloromethane)	75-09-2	0.05	0.05	51	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	95-47-6	--	--	--	< 0.0004	< 0.0003	< 0.0004	< 0.0003	< 0.0004
Styrene	100-42-5	--	--	--	< 0.0003	< 0.0002	< 0.0003	< 0.0002	< 0.0003
tert-Amyl methyl ether	994-05-8	--	--	--	< 0.0008	< 0.0007	< 0.0009	< 0.0006	< 0.0007
Tertiary Butyl Alcohol	75-65-0	--	--	--	< 0.014	< 0.012	< 0.016	< 0.012	< 0.013
Tetrachloroethene	127-18-4	1.3	1.3	5.5	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Toluene	108-88-3	0.7	0.7	100	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
trans-1,2-Dichloroethene	156-60-5	0.19	0.19	100	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
trans-1,3-Dichloropropene	10061-02-6	--	--	--	< 0.0003	< 0.0002	< 0.0003	< 0.0002	< 0.0003
Trichloroethene (Trichloroethylene)	79-01-6	0.47	0.47	10	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	< 0.0007	< 0.0006	< 0.0008	< 0.0006	< 0.0006
Vinyl chloride (Chloroethene)	75-01-4	0.02	0.02	0.21	< 0.0006	< 0.0005	< 0.0006	< 0.0005	< 0.0005
Xylene (total)	1330-20-7	1.60	0.26	100	< 0.0009	< 0.0008	< 0.001	< 0.0008	< 0.0009

Parameter Name	Parameter Code	375-6.8(b) & 51 PGW	CP- Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB02 11/13/2018 OU3SB02-S-10.00- 10-12 REG	OU3SB02 11/13/2018 OU3SB02-S-14.00- 14-16 REG	OU3SB02 11/13/2018 OU3SB02-S-181113 2-4 REG	OU3SB05 11/13/2018 OU3SB05-S-12.00- 12-14 REG	OU3SB05 11/13/2018 OU3SB05-S-6.00-181113 6-8 REG
Semivolatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
1,4-Dioxane	123-91-1	0.1	0.1	9.8	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
2,4,5-Trichlorophenol	95-95-4	0.1	--	100	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
2,4,6-Trichlorophenol	88-06-2	--	--	--	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
2,4-Dichlorophenol	120-83-2	0.4	--	100	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
2,4-Dimethylphenol	105-67-9	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	--	100	< 0.4	< 0.4	< 0.42	< 0.4	< 0.41
2,4-Dinitrotoluene	121-14-2	--	--	--	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
2,6-Dinitrotoluene	606-20-2	0.17	--	1.03	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
2-Chloronaphthalene	91-58-7	--	--	--	< 0.007	< 0.007	< 0.008	< 0.007	< 0.007
2-Chlorophenol (o-Chlorophenol)	95-57-8	--	--	100	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
2-Methyl-Naphthalene	91-57-6	36.4	--	0.41	0.013 J	< 0.011	< 0.011	< 0.011	< 0.011
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	< 0.029	< 0.029	< 0.03	< 0.029	< 0.03
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	--	--	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
3,3'-Dichlorobenzidine	91-94-1	--	--	--	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
3-Nitroaniline	99-09-2	0.5	--	--	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	--	--	--	< 0.18	< 0.18	< 0.19	< 0.18	< 0.19
4-Bromophenylphenylether	101-55-3	--	--	--	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
4-Chloroaniline	106-47-8	0.22	--	100	< 0.037	< 0.037	< 0.038	< 0.037	< 0.037
4-Chlorophenyl phenyl ether	7005-72-3	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33	0.33	34	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
4-Nitroaniline	100-01-6	--	--	--	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
4-Nitrophenol	100-02-7	0.1	--	--	< 0.18	< 0.18	< 0.19	< 0.18	< 0.19
Acenaphthene	83-32-9	98	20	100	0.006 J	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene	208-96-8	107	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2	--	--	--	< 0.026	< 0.026	< 0.027	< 0.026	< 0.026
Anthracene	120-12-7	1000	100	100	0.07	< 0.004	< 0.004	< 0.004	< 0.004
Atrazine	1912-24-9	--	--	--	< 0.037	< 0.037	< 0.038	< 0.037	< 0.037
Benzaldehyde	100-52-7	--	--	--	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
Benzo(a)anthracene	56-55-3	1	1	1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Benzo(a)pyrene	50-32-8	22	1	1	< 0.007	< 0.007	< 0.008	< 0.007	< 0.007
Benzo(b)fluoranthene	205-99-2	1.70	1	1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Benzo(g,h,i)perylene	191-24-2	1000	100	100	< 0.007	< 0.007	< 0.008	< 0.007	< 0.007
Benzo(k)fluoranthene	207-08-9	1.7	0.8	1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
bis(2-Chloroethoxy)methane	111-91-1	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
bis(2-Chloroethyl) ether	111-44-4	--	--	--	< 0.026	< 0.026	< 0.027	< 0.026	< 0.026
bis(2-chloroisopropyl) ether	108-60-1	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
bis(2-Ethylhexyl)phthalate	117-81-7	435	--	50	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
Butylbenzylphthalate	85-68-7	122	--	100	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
Caprolactam	105-60-2	--	--	--	< 0.037	< 0.037	< 0.038	< 0.037	< 0.037
Carbazole	86-74-8	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
Chrysene	218-01-9	1	1	1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Di-n-butylphthalate	84-74-2	8.1	--	100	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
Di-n-octylphthalate	117-84-0	120	--	100	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
Dibenz(a,h)anthracene	53-70-3	1000	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Dibenzofuran	132-64-9	6.20	7	14	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
Diethylphthalate	84-66-2	7.1	--	100	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
Dimethyl phthalate	131-11-3	27	--	100	< 0.073	< 0.073	< 0.076	< 0.074	< 0.074
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
Fluoranthene	206-44-0	1000	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Fluorene	86-73-7	386	30	100	0.014 J	< 0.004	< 0.004	< 0.004	< 0.004
Hexachlorobenzene	118-74-1	1.4	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Hexachlorobutadiene	87-68-3	--	--	--	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
Hexachlorocyclopentadiene	77-47-4	--	--	--	< 0.18	< 0.18	< 0.19	< 0.18	< 0.19
Hexachloroethane	67-72-1	--	--	--	< 0.037	< 0.037	< 0.038	< 0.037	< 0.037
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	0.5	0.5	< 0.007	< 0.007	< 0.008	< 0.007	< 0.007
Isophorone	78-59-1	4.4	--	100	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
N-Nitrosodi-n-propylamine	621-64-7	--	--	--	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
Naphthalene	91-20-3	12	12	100	0.016 J	< 0.007	< 0.008	< 0.007	< 0.007
Nitrobenzene	98-95-3	0.17	--	3.7	< 0.029	< 0.029	< 0.03	< 0.029	< 0.03
p-Chloro-m-cresol	59-50-7	--	--	--	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
Pentachlorophenol	87-86-5	0.8	0.8	2.4	< 0.04	< 0.04	< 0.042	< 0.04	< 0.041
Phenanthrene	85-01-8	1000	100	100	< 0.016 J	< 0.004	< 0.004	< 0.004	< 0.004
Phenol	108-95-2	0.33	0.33	100	< 0.026	< 0.026	< 0.027	< 0.026	< 0.026
Pyrene	129-00-0	1000	100	100	< 0.004	< 0.004	< 0.004	0.004 J	< 0.004

Parameter Name	Parameter Code	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	OU3SB02 11/13/2018 OU3SB02-S-10.00-10-12 REG	OU3SB02 11/13/2018 OU3SB02-S-14.00-14-16 REG	OU3SB02 11/13/2018 OU3SB02-S-2.00-181113 2-4 REG	OU3SB05 11/13/2018 OU3SB05-S-12.00-12-14 REG	OU3SB05 11/13/2018 OU3SB05-S-6.00-181113 6-8 REG
Polychlorinated Biphenyls									
Aroclor 1016	12674-11-2	--	--	--	< 0.0039 D1	< 0.0039 D1	< 0.0041 D1	--	--
Aroclor 1221	11104-28-2	--	--	--	< 0.005 D1	< 0.005 D1	< 0.0053 D1	--	--
Aroclor 1232	11141-16-5	--	--	--	< 0.0087 D1	< 0.0087 D1	< 0.0091 D1	--	--
Aroclor 1242	53469-21-9	--	--	--	< 0.0036 D1	< 0.0036 D1	< 0.0038 D1	--	--
Aroclor 1248	12672-29-6	--	--	--	< 0.0036 D1	< 0.0036 D1	< 0.0038 D1	--	--
Aroclor 1254	11097-69-1	--	--	--	< 0.0036 D1	< 0.0036 D1	< 0.0038 D1	--	--
Aroclor 1260	11096-82-5	--	--	--	< 0.0053 D1	< 0.0054 D1	< 0.0056 D1	--	--
Aroclor 1262	37324-23-5	--	--	--	< 0.0036 D1	< 0.0036 D1	< 0.0038 D1	--	--
Aroclor 1268	11100-14-4	--	--	--	< 0.0036 D1	< 0.0036 D1	< 0.0038 D1	--	--
Pesticides									
4,4-DDD	72-54-8	14	0.0033	2.6	< 0.00036 D1	< 0.00036 D1	< 0.00038 D1	--	--
4,4-DDE	72-55-9	17	0.0033	1.8	< 0.00036 D1	< 0.00036 D1	< 0.00038 D1	--	--
4,4-DDT	50-29-3	136	0.0033	1.7	< 0.00086 D1	< 0.00086 D1	< 0.0009 D1	--	--
Aldrin	309-00-2	0.19	0.005	0.019	< 0.00019 D1	< 0.00019 D1	< 0.00019 D1	--	--
alpha BHC	319-84-6	0.02	0.02	0.097	< 0.00019 D1	< 0.00019 D1	< 0.00019 D1	--	--
alpha Chlordane	5103-71-9	2.9	0.094	0.91	< 0.00019 D1	< 0.00019 D1	< 0.00019 D1	--	--
beta BHC	319-85-7	0.09	0.036	0.072	< 0.00048 D1	< 0.00048 D1	< 0.0005 D1	--	--
delta BHC	319-86-8	0.25	0.04	100	< 0.00049 D1	< 0.00049 D1	< 0.00051 D1	--	--
DIELDRIN	60-57-1	0.1	0.005	0.039	< 0.00036 D1	< 0.00036 D1	< 0.00038 D1	--	--
Endosulfan I	959-98-8	102	2.4	4.8	< 0.00024 D1	< 0.00024 D1	< 0.00025 D1	--	--
Endosulfan II	33213-65-9	102	2.4	4.8	< 0.0012 D1	< 0.0012 D1	< 0.0013 D1	--	--
ENDOSULFAN SULFATE	1031-07-8	1000	2.4	4.8	< 0.00036 D1	< 0.00036 D1	< 0.00038 D1	--	--
ENDRIN	72-20-8	0.06	0.014	2.2	< 0.00074 D1	< 0.00074 D1	< 0.00078 D1	--	--
ENDRIN ALDEHYDE	7421-93-4	--	--	--	< 0.00036 D1	< 0.00036 D1	< 0.00038 D1	--	--
ENDRIN KETONE	53494-70-5	--	--	--	< 0.00065 D1	< 0.00066 D1	< 0.00068 D1	--	--
gamma BHC (Lindane)	58-89-9	0.1	0.1	0.28	< 0.00023 D1	< 0.00023 D1	< 0.00024 D1	--	--
gamma Chlordane	5103-74-2	14	--	0.54	< 0.00027 D1	< 0.00027 D1	< 0.00029 D1	--	--
HEPTACHLOR	76-44-8	0.38	0.042	0.42	< 0.00034 D1	< 0.00034 D1	< 0.00035 D1	--	--
HEPTACHLOR EPOXIDE	1024-57-3	0.02	--	0.077	< 0.00019 D1	< 0.00019 D1	< 0.00019 D1	--	--
METHOXYCHLOR	72-43-5	900	--	100	< 0.002 D1	< 0.002 D1	< 0.0021 D1	--	--
TOXAPHENE	8001-35-2	--	--	--	< 0.015 Z D1	< 0.015 Z D1	< 0.016 Z D1	--	--
Metals									
Aluminum	7429-90-5	--	--	--	17,700	17,300	21,100	17,900	18,500
Antimony	7440-36-0	--	--	--	0.282 J	0.284 J	0.303 J	0.3 J	0.329
Arsenic	7440-38-2	16	13	16	6.19	10.8	7.72	5.5	6.91
Barium	7440-39-3	820	350	350	79.4	86.4	107	70	79.3
Beryllium	7440-41-7	47	7.2	14	0.814	0.82	0.851	0.732	0.811
Cadmium	7440-43-9	7.50	2.5	2.5	0.138 J	0.0458 J	0.1 J	0.277	0.123 J
Calcium	7440-70-2	--	--	--	12,400	16,200	780	19,000	1,090
Chromium	7440-47-3	--	30	36	20.7	20.4	24.1	21.9	21
Cobalt	7440-48-4	--	--	30	13.6	14.6	17.6	13.8	16.3
Copper	7440-50-8	1720	50	270	34.9	30.9	36	32.8	37
Iron	7439-89-6	--	--	2000	31,000	30,900	34,000	33,600	32,400
Lead	7439-92-1	450	63	400	13.7	13.4	15.9	18	15.2
Magnesium	7439-95-4	--	--	--	8,230	11,400	5,960	10,100	6,590
Manganese	7439-96-5	2000	1600	2000	656	608	719	657	849
Nickel	7440-02-0	130	30	140	30.4	30.4	29.5	31.1	32.4
Potassium	7440-09-7	--	--	--	2,600	2,820	2,650	2,330	2,600
Selenium	7782-49-2	4	3.9	36	0.198 J	0.2 J	0.336 J	0.26 J	< 0.107
Silver	7440-22-4	8.3	2	36	0.0494 J	0.041 J	< 0.0358	0.0422 J	< 0.0332
Sodium	7440-23-5	--	--	--	150 J	73.2 J	94.9 J	< 71.3	343
Thallium	7440-28-0	--	--	--	0.141	0.152	0.159	0.139	0.135
Vanadium	7440-62-2	--	--	100	24	24.4	28.1	23.7	23.8
Zinc	7440-66-6	2480	109	2200	88.3	85.2	88.8	84.3	85.1
Mercury	7439-97-6	0.73	0.18	0.81	< 0.0328	< 0.0334	< 0.0335	< 0.0348	< 0.033

Notes:
All values are provided in milligrams per kilogram (mg/kg)
--: Not applicable
SCO: Soil Cleanup Objective
PGW: Protection of Groundwater
< : Not detected at the laboratory method detection limit.
D1: Indicates for dual column analyses that the result is reported from column 1
J : Result detected between the reporting limit and the method detection limit.
Z: Laboratory defined - see analysis report
Underline: Exceeds PGW SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO
Highlighted Yellow: Exceeds Restricted-Residential SCO

Location ID				OU3SB02	OU3SB05
Sample Delivery Group (SDG)				2011579	2011579
Lab Sample ID				9909691	9909694
Sample Date	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	11/19/2018	11/19/2018
Field Sample ID				OU3SB02-W-6.00-181119	OU3SB05-W-6.00-181119
Sample Purpose				REG	REG
Parameter Name					
Volatile Organic Compounds					
1,1-Dichloroethene	75-35-4	5	--	< 0.2	< 0.2
1,1,1-Trichloroethane	71-55-6	5	--	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	79-34-5	5	--	< 0.2	< 0.2
1,1,2-Trichloroethane	79-00-5	1	--	< 0.2	< 0.2
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	--	< 0.2	< 0.2
1,1-Dichloroethane	75-34-3	5	--	< 0.2	< 0.2
1,2,3-Trichlorobenzene	87-61-6	--	7	< 0.4	< 0.4
1,2,4-Trichlorobenzene	120-82-1	5	--	< 0.3	< 0.3
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	--	0.00033	< 0.3	< 0.3
1,2-Dibromoethane	106-93-4	--	0.0075	< 0.2	< 0.2
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	--	< 0.2	< 0.2
1,2-Dichloroethane	107-06-2	0.6	--	< 0.3	< 0.3
1,2-Dichloropropane	78-87-5	1	--	< 0.2	< 0.2
1,3-Dichlorobenzene	541-73-1	3	--	< 0.2	< 0.2
1,4-Dichlorobenzene	106-46-7	3	--	< 0.2	< 0.2
2-Butanone (Methyl ethyl ketone)	78-93-3	50	--	5 J	1 J
2-Hexanone	591-78-6	50	--	< 0.3	< 0.3
4-Methyl-2-pentanone	108-10-1	--	6300	< 0.5	< 0.5
Acetone	67-64-1	50	--	56	12 J
Benzene	71-43-2	1	--	< 0.2	< 0.2
Bromochloromethane	74-97-5	--	83	< 0.2	< 0.2
Bromodichloromethane	75-27-4	50	--	< 0.2	< 0.2
Bromoform	75-25-2	50	--	< 0.2	< 0.2
Bromomethane (Methyl bromide)	74-83-9	5	--	< 0.3	< 0.3
Carbon disulfide	75-15-0	60	--	< 0.2	0.2 J
Carbon Tetrachloride	56-23-5	5	--	< 0.2	< 0.2
Chlorobenzene	108-90-7	5	--	< 0.2	< 0.2
Chloroethane	75-00-3	5	--	< 0.2	< 0.2
Chloroform	67-66-3	7	--	< 0.2	< 0.2
Chloromethane (Methyl chloride)	74-87-3	5	--	< 0.2	< 0.2
cis-1,2-Dichloroethene	156-59-2	5	--	< 0.2	< 0.2
cis-1,3-Dichloropropene	10061-01-5	0.4	--	< 0.2	< 0.2
Cyclohexane	110-82-7	--	13000	< 0.2	< 0.2
Dibromochloromethane	124-48-1	50	--	< 0.2	< 0.2
Dichlorodifluoromethane (Freon 12)	75-71-8	--	200	< 0.2	< 0.2
Diisopropyl ether	108-20-3	--	1500	< 0.2	< 0.2
Ethyl-t-butylether	637-92-3	--	--	< 0.2	< 0.2
Ethylbenzene	100-41-4	5	--	< 0.4	< 0.4
Isopropylbenzene	98-82-8	--	450	< 0.2	< 0.2
m,p-Xylenes	XYLENES-MP	--	--	< 1	< 1
Methyl acetate	79-20-9	--	20000	< 0.2	< 0.2
Methyl-t-butyl ether	1634-04-4	10	--	< 0.2	< 0.2
Methylcyclohexane	108-87-2	--	--	< 0.2	< 0.2
Methylene chloride (Dichloromethane)	75-09-2	5	--	< 0.3	< 0.3
o-Xylene	95-47-6	--	190	< 0.4	< 0.4
Styrene	100-42-5	5	--	< 0.2	< 0.2
tert-Amyl methyl ether	994-05-8	--	--	< 0.8	< 0.8
Tertiary Butyl Alcohol	75-65-0	--	--	< 12	< 12
Tetrachloroethene	127-18-4	5	--	< 0.2	< 0.2
Toluene	108-88-3	5	--	0.2 J	< 0.2
trans-1,2-Dichloroethene	156-60-5	5	--	< 0.2	< 0.2
trans-1,3-Dichloropropene	10061-02-6	0.4	--	< 0.2	< 0.2
Trichloroethene (Trichloroethylene)	79-01-6	5	--	< 0.2	< 0.2
Trichlorofluoromethane (Freon 11)	75-69-4	5	--	< 0.2	< 0.2
Vinyl chloride (Chloroethene)	75-01-4	2	--	< 0.2	< 0.2
Xylene (total)	1330-20-7	5	--	< 1	< 1

Location ID Sample Delivery Group (SDG) Lab Sample ID Sample Date Field Sample ID Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OU3SB02 2011579 9909691 11/19/2018 OU3SB02-W-6.00-181119 REG	OU3SB05 2011579 9909694 11/19/2018 OU3SB05-W-6.00-181119 REG
Semivolatile Organic Compounds					
1,2,4,5-Tetrachlorobenzene	95-94-3	--	1.7	< 0.6	< 0.6
1,4-Dioxane	123-91-1	--	0.46	< 2	< 2
2,3,4,6-Tetrachlorophenol	58-90-2	--	240	< 5	< 5
2,4,5-Trichlorophenol	95-95-4	1	--	< 0.6	< 0.6
2,4,6-Trichlorophenol	88-06-2	1	--	< 0.6	< 0.6
2,4-Dichlorophenol	120-83-2	5	--	< 0.6	< 0.6
2,4-Dimethylphenol	105-67-9	50	--	< 3	< 4
2,4-Dinitrophenol	51-28-5	10	--	< 16	< 17
2,4-Dinitrotoluene	121-14-2	5	--	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5	--	< 0.6	< 0.6
2-Chloronaphthalene	91-58-7	10	--	< 0.5	< 0.5
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	--	< 0.6	< 0.6
2-Methyl-Naphthalene	91-57-6	--	36	< 0.1	< 0.1
2-Methylphenol (o-Cresol)	95-48-7	1	--	< 0.6	< 0.6
2-Nitroaniline (o-Nitroaniline)	88-74-4	5	--	< 2	< 2
2-Nitrophenol (o-Nitrophenol)	88-75-5	1	--	< 3	< 4
3,3'-Dichlorobenzidine	91-94-1	5	--	< 3	< 4
3-Nitroaniline	99-09-2	5	--	< 3	< 4
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1	--	< 9	< 10
4-Bromophenylphenylether	101-55-3	--	--	< 0.6	< 0.6
4-Chloroaniline	106-47-8	5	--	< 5	< 5
4-Chlorophenyl phenyl ether	7005-72-3	--	--	< 0.6	< 0.6
4-Methylphenol (p-Cresol)	106-44-5	1	--	< 0.6	< 0.6
4-Nitroaniline	100-01-6	5	--	< 1	< 1
4-Nitrophenol	100-02-7	1	--	< 11	< 12
Acenaphthene	83-32-9	20	--	< 0.1	< 0.1
Acenaphthylene	208-96-8	--	--	< 0.1	< 0.1
Acetophenone	98-86-2	--	1900	< 5	< 5
Anthracene	120-12-7	50	--	< 0.1	< 0.1
Atrazine	1912-24-9	--	0.3	< 2	< 2
Benzaldehyde	100-52-7	--	19	< 3	< 4
Benzo(a)anthracene	56-55-3	0.002	--	0.3 J	< 0.1
Benzo(a)pyrene	50-32-8	--	0.025	0.4 J	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	--	0.5 J	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	0.3 J	< 0.1
Benzo(k)fluoranthene	207-08-9	0.002	--	0.2 J	< 0.1
bis(2-Chloroethoxy)methane	111-91-1	5	--	< 0.6	< 0.6
bis(2-Chloroethyl) ether	111-44-4	1	--	< 0.6	< 0.6
bis(2-chloroisopropyl) ether	108-60-1	5	--	< 0.6	< 0.6
bis(2-Ethylhexyl)phthalate	117-81-7	5	--	< 6	< 6
Butylbenzylphthalate	85-68-7	50	--	< 2	< 2
Caprolactam	105-60-2	--	9900	< 6	< 6
Carbazole	86-74-8	--	--	< 0.6	< 0.6
Chrysene	218-01-9	0.002	--	0.4 J	< 0.1
Di-n-butylphthalate	84-74-2	50	--	< 2	< 2
Di-n-octylphthalate	117-84-0	50	--	< 6	< 6
Dibenz(a,h)anthracene	53-70-3	--	0.025	< 0.1	< 0.1
Dibenzofuran	132-64-9	--	7.9	< 0.6	< 0.6
Diethylphthalate	84-66-2	50	--	< 2	< 2
Dimethyl phthalate	131-11-3	50	--	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	--	0.83	< 3	< 4
Fluoranthene	206-44-0	50	--	0.9	< 0.1
Fluorene	86-73-7	50	--	< 0.1	< 0.1
Hexachlorobenzene	118-74-1	0.04	--	< 0.1	< 0.1
Hexachlorobutadiene	87-68-3	0.5	--	< 0.6	< 0.6
Hexachlorocyclopentadiene	77-47-4	5	--	< 6	< 6
Hexachloroethane	67-72-1	5	--	< 1	< 1
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	--	0.3 J	< 0.1
Isophorone	78-59-1	50	--	< 0.6	< 0.6
N-Nitrosodi-n-propylamine	621-64-7	--	0.011	< 0.8	< 0.8
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	50	--	< 0.8	< 0.8
Naphthalene	91-20-3	10	--	< 0.1	< 0.1
Nitrobenzene	98-95-3	0.4	--	< 0.6	< 0.6
p-Chloro-m-cresol	59-50-7	1	--	< 0.6	< 0.6
Pentachlorophenol	87-86-5	1	--	< 1	< 1
Phenanthrene	85-01-8	50	--	0.5 J	< 0.1
Phenol	108-95-2	1	--	< 0.6	< 0.6
Pyrene	129-00-0	50	--	0.8	< 0.1

Location ID Sample Delivery Group (SDG) Lab Sample ID Sample Date Field Sample ID Sample Purpose Parameter Name	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OU3SB02 2011579 9909691 11/19/2018 OU3SB02-W-6.00-181119 REG	OU3SB05 2011579 9909694 11/19/2018 OU3SB05-W-6.00-181119 REG
Metals					
Aluminum	7429-90-5	100	--	1,730,000	180,000
Aluminum (Dissolved)	7429-90-5	100	--	1,320	< 19.7
Antimony	7440-36-0	3	--	0.59 J	0.6 J
Antimony (Dissolved)	7440-36-0	3	--	< 0.41 K1	< 0.41 K3
Arsenic	7440-38-2	25	--	61.1	43.1
Arsenic (Dissolved)	7440-38-2	25	--	1.8 J	< 0.68
Barium	7440-39-3	1000	--	1,330	720
Barium (Dissolved)	7440-39-3	1000	--	812	94.7
Beryllium	7440-41-7	3	--	12.7	6.8
Beryllium (Dissolved)	7440-41-7	3	--	0.89	< 0.091
Cadmium	7440-43-9	5	--	2.3	1.1
Cadmium (Dissolved)	7440-43-9	5	--	5.2	< 0.15
Chromium	7440-47-3	50	--	511	289
Chromium (Dissolved)	7440-47-3	50	--	8.6	1.3 J
Cobalt	7440-48-4	5	--	199	106
Cobalt (Dissolved)	7440-48-4	5	--	352	3.6
Copper	7440-50-8	200	--	433	259
Copper (Dissolved)	7440-50-8	200	--	15.1 J	< 9.9
Iron	7439-89-6	300	--	2,040,000	220,000
Iron (Dissolved)	7439-89-6	300	--	25,600	24.5 J
Lead	7439-92-1	25	--	272	137
Lead (Dissolved)	7439-92-1	25	--	3.4	< 1.1
Magnesium	7439-95-4	35000	--	594,000	71,500
Magnesium (Dissolved)	7439-95-4	35000	--	113,000	32,300
Manganese	7439-96-5	300	--	65,700	14,300
Manganese (Dissolved)	7439-96-5	300	--	55,100	4,630
Nickel	7440-02-0	100	--	2,490	268
Nickel (Dissolved)	7440-02-0	100	--	233	5.7
Sodium	7440-23-5	20000	--	19,000	192,000
Sodium (Dissolved)	7440-23-5	20000	--	86,500	295,000
Thallium	7440-28-0	0.5	--	1.5	1
Thallium (Dissolved)	7440-28-0	0.5	--	< 0.11	< 0.11
Vanadium	7440-62-2	--	86	312	191
Vanadium (Dissolved)	7440-62-2	--	86	0.32 J	< 0.24 K1
Mercury	7439-97-6	0.7	--	4.2	0.32 J
Mercury (Dissolved)	7439-97-6	0.7	--	< 0.05	< 0.05

Notes:

Report Units are in micrograms per liter (ug/L).

4.2

Result Exceeds New York State Technical and Operational Guidance Series 1.1 Groundwater Quality Standards (NYS TOGS GWC or USEPA Tapwater RSL 2019).

RSL: Regional screening level

USEPA: United States Environmental Protection Agency

< :Not detected at the laboratory method detection limit.

J: Result detected between the reporting limit and the method detection limit.

K1:

K3:

--: Not Applicable

Appendix C

Engineer's Estimate

Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Industrial SCOs Off-Site						
Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions	
Design / Work Plans / Permits				\$ 147,500		
Pre-Design Investigation	\$30,000	Lump Sum	1	\$ 30,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (i.e. Railroad)	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$ 80,000		
Specialty & Local Permits	\$25,000	Lump Sum	1	\$ 25,000	Establishing the Off-Site Parcel as Restricted-Residential	
Implementation of Environmental Easement	\$12,500	Lump Sum	1	\$ 12,500		
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 180,329		
Mobilization/Demobilization	10%	Lump Sum	1	\$ 66,345	Assumes mobilization of subcontractor labor, equipment and material to perform the work.	
Clearing and Grubbing Heavy Vegetation	\$12,500	Lump Sum	1	\$ 12,500		
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.	
Security & Traffic Control	\$15,000	Lump Sum	1	\$ 15,000		
Utility Mark Out	\$1,800	Day	1	\$ 1,800	Use of straw wattle or silt fence.	
Perimeter Erosion Controls	\$8	Linear Foot	1398	\$ 11,184		
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	For work conducted within 50' of the adjacent rail.	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000		
Coordination with Railroad/Track Protection for Off-Site Area	\$25,000	Lump Sum	1	\$ 25,000	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak	
Perimeter Air Monitor	\$6,000	Week	3	\$ 18,000		
Dust and Odor Control	\$1,500	Week	3	\$ 4,500	Rental of Water Truck. Operator cost covered under dewatering.	
2. Constituents and Remedial Actions				\$ 1,474,825		
Excavation, Stockpiling and Loading of Soil	\$35	Cubic yard	4250	\$ 148,750	Based on previous quotes on similar projects	
Post Excavation Samples	\$75	Each	86	\$ 6,450		
Waste Classification	\$500	Each	9	\$ 4,500	Assumes 1 per 500 cubic yards. Assumes standard turn around time.	
Furnish Clean Fill and Place	\$55	Tons	5144	\$ 282,944		
Furnish Topsoil and Place	\$65	Cubic yard	820	\$ 53,324	Assumes 0.5' thick across all disturbed areas.	
Seeding	\$6,000	Lump Sum	1	\$ 6,000		
Transport & Disposal - Non-Hazardous Soil	\$81	Tons	5419	\$ 697,935	Assumes conversion of 1.5 tons to 1 cubic yard, 85% Non-Hazardous	
Transport & Disposal - Hazardous Waste	\$230	Tons	956	\$ 274,922		
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 128,230		
Construction Completion Report/Final Engineering Report/Soil Management Plan	\$60,000	Each	1	\$ 60,000		
Contractor Project Management	10%	Lump Sum	1	\$ 68,230		
4. Maintenance and Monitoring				\$ 132,000		
Annual Inspections - Soil Cover	\$2,500	Each	30	\$ 75,000	Assumes Annually for 30 Years	
Five Year Review Reporting	\$7,500	Each	6	\$ 45,000		
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 12,000		
Subtotal				\$ 2,062,884		
Contingency (Assume 20%)				\$ 412,577		
Grand Total				\$ 2,475,461		

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.

Removal and Disposal of Soil for Exceedances of Residential SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Unrestricted SCOs Off-Site

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 155,000	
Pre-Design Investigation	\$50,000	Lump Sum	1	\$ 50,000	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$ 80,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Specialty & Local Permits	\$25,000	Lump Sum	1	\$ 25,000	Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (I.e. Railroad)
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 358,059	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 91,143	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Lump Sum	1	\$ 5,000	
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade. Assumes 1 day per week during excavation plus 6 days for existing conditions and final grade.
Security & Traffic Control	\$12,500	Lump Sum	1	\$ 12,500	
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls - Silt Fence/Straw Wattle	\$8	Linear Foot	1452	\$ 11,616	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000	
Coordination with Railroad/Track Protection for Off-Site Area	\$150,000	Lump Sum	1	\$ 150,000	For work conducted within 50' of the adjacent rail.
Perimeter Air Monitor	\$6,000	Week	4	\$ 24,000	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak
Dewatering	\$7,500	Week	4	\$ 30,000	Assumes construction dewatering sumps and operation during construction working hours.
Dust and Odor Control	\$1,500	Week	4	\$ 6,000	Rental of Water Truck. Operator cost covered under dewatering.
2. Constituents and Remedial Actions				\$ 1,692,853	
Excavation, Stockpiling and Loading of Soil	\$35	Cubic yard	4820	\$ 168,700	Based on previous quotes on similar projects
Excavation Support - Trench Box or Slide Rail	\$10,000	Week	2	\$ 20,000	To complete deep excavation adjacent to rail line.
Post Excavation Samples	\$75	Each	87	\$ 6,525	
Waste Classification	\$500	Each	10	\$ 5,000	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Furnish Clean Fill and Place	\$55	Tons	5999	\$ 329,969	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	820	\$ 53,324	Assumes 0.5' thick across all disturbed areas.
Seeding	\$6,000	Lump Sum	1	\$ 6,000	
Transport & Disposal - Non-Hazardous	\$81	Tons	6146	\$ 791,540	Assumes conversion of 1.5 tons to 1 cubic yard, 85% Non-Hazardous
Transport & Disposal - Hazardous Waste	\$230	Tons	1085	\$ 311,794	Assumes conversion of 1.5 tons to 1 cubic yard, 15% Hazardous
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 154,758	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1	\$ 94,758	
Subtotal				\$ 2,360,670	
Contingency (Assume 20%)				\$ 472,134	
Grand Total				\$ 2,832,804	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.

Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Industrial SCOs Off-Site

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 147,500	
Pre-Design Investigation	\$30,000	Lump Sum	1	\$ 30,000	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$ 80,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Specialty & Local Permits	\$25,000	Lump Sum	1	\$ 25,000	Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (i.e. Railroad)
Implementation of Environmental Easement	\$12,500	Lump Sum	1	\$ 12,500	Establishing the Off-Site Parcel as Restricted-Residential
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 202,801	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 78,385	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$15,000	Lump Sum	1	\$ 15,000	
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Security & Traffic Control	\$15,000	Lump Sum	1	\$ 15,000	
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls	\$8	Linear Foot	1452	\$ 11,616	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000	
Coordination with Railroad/Track Protection for Off-Site Area	\$25,000	Lump Sum	1	\$ 25,000	For work conducted within 50' of the adjacent rail.
Perimeter Air Monitor	\$6,000	Week	4	\$ 24,000	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak
Dust and Odor Control	\$1,500	Week	4	\$ 6,000	Rental of Water Truck. Operator cost covered under dewatering.
2. Constituents and Remedial Actions				\$ 1,807,046	
Excavation, Stockpiling and Loading of Soil	\$35	Cubic yard	5210	\$ 182,350	Based on previous quotes on similar projects
Post Excavation Samples	\$75	Each	104	\$ 7,800	
Waste Classification	\$500	Each	11	\$ 5,500	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Furnish Clean Fill and Place	\$55	Tons	6226	\$ 342,436	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	1059	\$ 68,852	Assumes 0.5' thick across all disturbed areas.
Seeding	\$7,500	Lump Sum	1	\$ 7,500	
Transport & Disposal - Non-Hazardous Soil	\$81	Tons	6643	\$ 855,586	Assumes conversion of 1.5 tons to 1 cubic yard, 85% Non-Hazardous
Transport & Disposal - Hazardous Waste	\$230	Tons	1172	\$ 337,022	Assumes conversion of 1.5 tons to 1 cubic yard, 15% Hazardous
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 141,724	
Construction Completion Report/Final Engineering Report/Soil Management Plan	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1	\$ 81,724	
4. Maintenance and Monitoring				\$ 132,000	
Annual Inspections - Soil Cover	\$2,500	Each	30	\$ 75,000	Assumes Annually for 30 Years
Five Year Review Reporting	\$7,500	Each	6	\$ 45,000	
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 12,000	
Subtotal				\$ 2,431,071	
Contingency (Assume 20%)				\$ 486,214	
Grand Total				\$ 2,917,286	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.

Removal and Disposal of Soil for Exceedances of Unrestricted SCOs On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Unrestricted SCOs Off-Site

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 155,000	
Pre-Design Investigation	\$50,000	Lump Sum	1	\$ 50,000	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$ 80,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Specialty & Local Permits	\$25,000	Lump Sum	1	\$ 25,000	Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (I.e. Railroad)
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 382,111	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 102,532	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$15,000	Lump Sum	1	\$ 15,000	
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade. Assumes 1 day per week during excavation plus 6 days for existing conditions and final grade.
Security & Traffic Control	\$15,000	Lump Sum	1	\$ 15,000	
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls - Silt Fence/Straw Wattle	\$8	Linear Foot	1472	\$ 11,779	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000	
Coordination with Railroad/Track Protection for Off-Site Area	\$150,000	Lump Sum	1	\$ 150,000	For work conducted within 50' of the adjacent rail.
Perimeter Air Monitor	\$6,000	Week	4	\$ 24,000	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak
Dewatering	\$7,500	Week	4	\$ 30,000	Assumes construction dewatering sumps and operation during construction working hours.
Dust and Odor Control	\$1,500	Week	4	\$ 6,000	Rental of Water Truck. Operator cost covered under dewatering.
2. Constituents and Remedial Actions				\$ 2,021,534	
Excavation, Stockpiling and Loading of Soil	\$35	Cubic yard	5770	\$ 201,950	Based on previous quotes on similar projects
Excavation Support - Trench Box or Slide Rail	\$10,000	Week	2	\$ 20,000	To complete deep excavation adjacent to rail line.
Post Excavation Samples	\$75	Each	104	\$ 7,800	
Waste Classification	\$500	Each	12	\$ 6,000	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Furnish Clean Fill and Place	\$55	Tons	7066	\$ 388,636	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	1059	\$ 68,852	Assumes 0.5' thick across all disturbed areas.
Seeding	\$7,500	Lump Sum	1	\$ 7,500	
Transport & Disposal - Non-Hazardous	\$81	Tons	7357	\$ 947,549	Assumes conversion of 1.5 tons to 1 cubic yard, 85% Non-Hazardous
Transport & Disposal - Hazardous Waste	\$230	Tons	1298	\$ 373,247	Assumes conversion of 1.5 tons to 1 cubic yard, 15% Hazardous
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 168,285	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1	\$ 108,285	
Subtotal				\$ 2,726,930	
Contingency (Assume 20%)				\$ 545,386	
Grand Total				\$ 3,272,316	

Notes:

- Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
- The percentage values for project management, design, and construction management (et cetera) are industry standard values.
- Assumes all construction work will be done in Level D protection.

In-Situ Soil Mixing and Removal for Exceedances of Restricted-Residential SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 265,000	
Pre-Design Investigation	\$160,000	Lump Sum	1	\$ 160,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$ 80,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Implementation of Environmental Easement	\$25,000	Lump Sum	1	\$ 25,000	Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (i.e. Railroad)
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 183,518	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 86,209	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	3.3	\$ 16,374	
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls	\$8	Linear Foot	2892	\$ 23,136	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000	
Perimeter Air Monitor	\$6,000	Week	4	\$ 24,000	Assume 3 stations (upwind/downwind). Station includes PID and Rental of Water Truck. Operator cost covered under dewatering.
Dust and Odor Control	\$1,500	Week	4	\$ 6,000	
2. Constituents and Remedial Actions				\$ 1,496,275	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	4012	\$ 100,301	Based on previous quotes on similar projects
Post Excavation Sampling	\$75	Each	155	\$ 11,611	For Constituents of Concern Only
Waste Classification	\$500	Each	8	\$ 4,012	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
In-Situ Soil Mixing - Mixing Head - Initial Treatment	\$45	Cubic Yards	2250	\$ 101,250	
Persulfate Amendment Concentration (2% by weight)	\$3,000	Tons	68	\$ 202,500	Assumes 2% by weight. Assumes conversion of 1.5 tons to 1 cubic yard.
Performance Monitoring	\$250	Each	9	\$ 2,250	Assumes 1 per 100 cubic yards
Furnish Clean Fill and Place	\$55	Tons	2709	\$ 149,004	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	2206	\$ 143,385	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500	Acre	2.7	\$ 6,837	
Transport & Disposal - Non-Hazardous	\$81	Tons	6018	\$ 775,126	Assumes conversion of 1.5 tons to 1 cubic yard
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 270,467	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1.0	\$ 90,467	
Annual Inspections - Soil Cover	\$2,500	Each	30	\$ 75,000	Assumes Annually for 30 Years
Five Year Review Reporting	\$7,500	Each	6	\$ 45,000	
Monitored Natural Attenuation					
Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 85,000	
Final Engineering Report	\$60,000	Lump Sum	1	\$ 60,000	
Implementation of Groundwater Use Restriction	\$25,000	Lump Sum	1	\$ 25,000	
Maintenance, Monitoring, Permits Closeout				\$ 915,915	
Monitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	39	\$ 163,800	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual Year 5-30
MNA- Laboratory	\$7,150	Event	39	\$ 278,850	
Annual MNA Reporting	\$10,000	Year	30	\$ 300,000	Assumes 30 Years
Five Year Review Reporting	\$15,000	Each	6	\$ 90,000	Assumes 30 Years
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 83,265	Assumes 30 Years
Subtotal - Soil				\$ 2,215,261	
Subtotal - Groundwater				\$ 1,000,915	
Contingency (Assume 20%)				\$ 643,235	
Grand Total				\$ 3,859,411	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.
4. Assumes no demolition or repairs to the existing structures.

Removal and Disposal for Exceedances of Restricted-Residential SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 185,000	
Pre-Design Investigation	\$100,000	Lump Sum	1	\$ 100,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$ 60,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Implementation of Environmental Easement	\$25,000	Lump Sum	1	\$ 25,000	Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (i.e. Railroad)
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 177,745	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 80,435	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	3.3	\$ 16,374	
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls	\$8	Linear Foot	2892	\$ 23,136	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000	
Perimeter Air Monitor	\$6,000	Week	4	\$ 24,000	Assume 3 stations (upwind/downwind). Station includes PID and Rental of Water Truck. Operator cost covered under dewatering.
Dust and Odor Control	\$1,500	Week	4	\$ 6,000	
2. Constituents and Remedial Actions				\$ 1,873,169	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	6262	\$ 156,542	Based on previous quotes on similar projects
Post Excavation Sampling	\$75	Each	211	\$ 15,792	For Constituents of Concern Only
Waste Classification	\$500	Each	13	\$ 6,262	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Furnish Clean Fill and Place	\$55	Tons	6084	\$ 334,599	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	2206	\$ 143,385	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500	Acre	2.7	\$ 6,837	
Transport & Disposal - Non-Hazardous	\$81	Tons	9393	\$ 1,209,754	Assumes conversion of 1.5 tons to 1 cubic yard
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 264,116	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1.0	\$ 84,116	
Annual Inspections - Soil Cover	\$2,500	Each	30	\$ 75,000	Assumes Annually for 30 Years
Five Year Review Reporting	\$7,500	Each	6	\$ 45,000	
Monitored Natural Attenuation					
Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 85,000	
Final Engineering Report	\$60,000	Lump Sum	1	\$ 60,000	
Implementation of Groundwater Use Restriction	\$25,000	Lump Sum	1	\$ 25,000	
Maintenance, Monitoring, Permits Closeout				\$ 915,915	
Monitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	39	\$ 163,800	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual Year 5-30
MNA- Laboratory	\$7,150	Event	39	\$ 278,850	
Annual MNA Reporting	\$10,000	Year	30	\$ 300,000	Assumes 30 Years
Five Year Review Reporting	\$15,000	Each	6	\$ 90,000	Assumes 30 Years
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 83,265	Assumes 30 Years
Subtotal - Soil				\$ 2,500,030	
Subtotal - Groundwater				\$ 1,000,915	
Contingency (Assume 20%)				\$ 700,189	
Grand Total				\$ 4,201,134	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.
4. Assumes no demolition or repairs to the existing structures.

Removal and Disposal for Exceedances of Unrestricted SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 320,000	
Pre-Design Investigation	\$200,000	Lump Sum	1	\$ 200,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$120,000	Lump Sum	1	\$ 120,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 3,192,714	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 1,947,335	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	55.4	\$ 276,797	
Surveying	\$2,200	Days	77	\$ 169,237	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls - Silt Fence/Straw Wattle	\$8	Linear Foot	19068	\$ 152,544	Use of straw wattle or silt fence.
Construction Entrance	\$12,500	Each	3	\$ 37,500	Costs include 3 construction entrances and routine maintenance
Decontamination Pad/Material Staging Areas	\$30,000	Lump Sum	1	\$ 30,000	
Perimeter Air Monitor	\$6,000	Week	77	\$ 462,000	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak
Dust and Odor Control	\$1,500	Week	77	\$ 115,500	Rental of Water Truck. Operator cost covered under dewatering.
2. Constituents and Remedial Actions				\$ 51,192,170	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	169500	\$ 4,237,500	Based on previous quotes on similar projects
Excavation Support - Trench Box or Equivalent	\$3,500	Week	9	\$ 31,500	To complete 6 ft deep excavation
Post Excavation Sampling	\$75	Each	2940	\$ 220,500	For Constituents of Concern Only
Waste Classification	\$500	Each	339	\$ 169,500	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Additional Excavation, Stockpiling and Loading of Soil - Exceedance Area(s) - 5% Volume	\$40	Cubic yard	8480	\$ 339,200	Assumes 5% of overall excavation volume due to exceedance in post excavation sampling
Furnish Clean Fill and Place	\$55	Tons	198300	\$ 10,906,500	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	37300	\$ 2,424,500	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500	Acre	46.2	\$ 115,570	
Transport & Disposal - Non-Hazardous	\$81	Tons	254250	\$ 32,747,400	Assumes conversion of 1.5 tons to 1 cubic yard.
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 2,223,748	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1.0	\$ 2,163,748	
Monitored Natural Attenuation					
Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 85,000	
Final Engineering Report	\$60,000	Lump Sum	1	\$ 60,000	
Implementation of Groundwater Use Restriction	\$25,000	Lump Sum	1	\$ 25,000	
Maintenance, Monitoring, Permits Closeout				\$ 915,915	
Monitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	39	\$ 163,800	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual Year 5-30
MNA- Laboratory	\$7,150	Event	39	\$ 278,850	
Annual MNA Reporting	\$10,000	Year	30	\$ 300,000	Assumes 30 Years
Five Year Review Reporting	\$15,000	Each	6	\$ 90,000	Assumes 30 Years
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 83,265	Assumes 30 Years
Subtotal - Soil				\$ 56,928,633	
Subtotal - Groundwater				\$ 1,000,915	
Contingency (Assume 20%)				\$ 11,585,910	
Grand Total				\$ 69,515,457	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.
4. Assumes no demolition or repairs to the existing structures.

In-Situ Soil Mixing and Removal for Exceedances of Restricted-Residential SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 265,000	
Pre-Design Investigation	\$160,000	Lump Sum	1	\$ 160,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$ 80,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Implementation of Environmental Easement	\$25,000	Lump Sum	1	\$ 25,000	Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (i.e. Railroad)
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 183,513	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 86,204	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	3.3	\$ 16,374	
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls	\$8	Linear Foot	2892	\$ 23,136	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000	
Perimeter Air Monitor	\$6,000	Week	4	\$ 24,000	Assume 3 stations (upwind/downwind). Station includes PID and Rental of Water Truck. Operator cost covered under dewatering.
Dust and Odor Control	\$1,500	Week	4	\$ 6,000	
2. Constituents and Remedial Actions				\$ 1,496,225	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	4012	\$ 100,301	Based on previous quotes on similar projects
Post Excavation Sampling	\$75	Each	155	\$ 11,611	For Constituents of Concern Only
Waste Classification	\$500	Each	8	\$ 4,012	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
In-Situ Soil Mixing - Mixing Head - Initial Treatment	\$45	Cubic Yards	2250	\$ 101,233	
Persulfate Amendment Concentration (2% by weight)	\$3,000	Tons	67	\$ 202,467	Assumes 2% by weight. Assumes conversion of 1.5 tons to 1 cubic yard.
Performance Monitoring	\$250	Each	9	\$ 2,250	Assumes 1 per 100 cubic yards
Furnish Clean Fill and Place	\$55	Tons	2709	\$ 149,004	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	2206	\$ 143,385	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500	Acre	2.7	\$ 6,837	
Transport & Disposal - Non-Hazardous	\$81	Tons	6018	\$ 775,126	Assumes conversion of 1.5 tons to 1 cubic yard
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 270,461	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1.0	\$ 90,461	
Annual Inspections - Soil Cover	\$2,500	Each	30	\$ 75,000	Assumes Annually for 30 Years
Five Year Review Reporting	\$7,500	Each	6	\$ 45,000	
In-Situ Bioremediation					
Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 132,500	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$ 60,000	Inclusive of Remedial Action Work Plan, HASP, SOPs
Construction Completion Report/Final Engineering Report	\$60,000	Lump Sum	1	\$ 60,000	Includes Site Management Plan (SMP)
Implementation of Groundwater Use Restriction	\$12,500	Lump Sum	1	\$ 12,500	
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 13,500	
Mobilization/Demobilization - General	\$3,500	Lump Sum	1	\$ 3,500	Land clearing activities to set up decon areas and material staging areas
Soil Erosion and Sedimentation Controls (Silt Fence, BMPs)	\$2,500	Lump Sum	1	\$ 2,500	
Equipment /Material Staging Areas/Decon Pads	\$7,500	Lump Sum	1	\$ 7,500	Established during first event and left in-situ until final event.
2. Constituents and Remedial Actions				\$ 511,500	
Mobilization/Demobilization - Injection Event	\$7,500	Event	5	\$ 37,500	Includes well, well vault and associated appurtenances.
Utility Locate	\$1,800	Event	5	\$ 9,000	
Injection Services	\$50,000	Event	5	\$ 250,000	Assumes use of licensed driller in New York. Assumes 10 days per event
Engineer - Labor & Expenses	\$25,000	Event	5	\$ 125,000	Assumes 2 staff members at 10 hours per day, vehicle rental and equipment. Assumes 10 days per event.
Substrate - Emulsified Vegetable Oil	\$18,000	Event	5	\$ 90,000	Assumes 3% solution strength. Includes tax and delivery costs.
4. Maintenance, Monitoring, Permits Closeout				\$ 380,215	
Monitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	19	\$ 79,800	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual Year 5-10
MNA- Laboratory	\$7,150	Event	19	\$ 135,850	
Annual MNA Reporting	\$10,000	Year	10	\$ 100,000	Assumes 10 Years
Five Year Review Reporting	\$15,000	Each	2	\$ 30,000	Assumes 10 Years
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 34,565	Assumes 10 Years
Subtotal - Soil				\$ 2,215,200	
Subtotal - Groundwater				\$ 1,037,715	
Contingency (Assume 20%)				\$ 650,583	
Grand Total				\$ 3,903,498	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.
4. Assumes no demolition or repairs to the existing structures.

Removal and Disposal for Exceedances of Restricted-Residential SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 185,000	
Pre-Design Investigation	\$100,000	Lump Sum	1	\$ 100,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$ 60,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Implementation of Environmental Easement	\$25,000	Lump Sum	1	\$ 25,000	Permit Equivalencies to be obtained; however, permitting may be required in association with easements/Right Of Ways (i.e. Railroad)
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 177,745	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 80,435	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	3.3	\$ 16,374	
Surveying	\$2,200	Days	5	\$ 11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls	\$8	Linear Foot	2892	\$ 23,136	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas	\$10,000	Lump Sum	1	\$ 10,000	
Perimeter Air Monitor	\$6,000	Week	4	\$ 24,000	Assume 3 stations (upwind/downwind). Station includes PID and Rental of Water Truck. Operator cost covered under dewatering.
Dust and Odor Control	\$1,500	Week	4	\$ 6,000	
2. Constituents and Remedial Actions				\$ 1,873,169	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	6262	\$ 156,542	Based on previous quotes on similar projects
Post Excavation Sampling	\$75	Each	211	\$ 15,792	For Constituents of Concern Only
Waste Classification	\$500	Each	13	\$ 6,262	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Furnish Clean Fill and Place	\$55	Tons	6084	\$ 334,599	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	2206	\$ 143,385	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500	Acre	2.7	\$ 6,837	
Transport & Disposal - Non-Hazardous	\$81	Tons	9393	\$ 1,209,754	Assumes conversion of 1.5 tons to 1 cubic yard
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 264,116	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1.0	\$ 84,116	
Annual Inspections - Soil Cover	\$2,500	Each	30	\$ 75,000	Assumes Annually for 30 Years
Five Year Review Reporting	\$7,500	Each	6	\$ 45,000	
In-Situ Bioremediation					
Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 132,500	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$ 60,000	Inclusive of Remedial Action Work Plan, HASP, SOPs
Construction Completion Report/Final Engineering Report	\$60,000	Lump Sum	1	\$ 60,000	Includes Site Management Plan (SMP)
Implementation of Groundwater Use Restriction	\$12,500	Lump Sum	1	\$ 12,500	
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 13,500	
Mobilization/Demobilization - General	\$3,500	Lump Sum	1	\$ 3,500	Land clearing activities to set up decon areas and material staging areas
Soil Erosion and Sedimentation Controls (Silt Fence, BMPs)	\$2,500	Lump Sum	1	\$ 2,500	
Equipment /Material Staging Areas/Decon Pads	\$7,500	Lump Sum	1	\$ 7,500	Established during first event and left in-situ until final event.
2. Constituents and Remedial Actions				\$ 511,500	
Mobilization/Demobilization - Injection Event	\$7,500	Event	5	\$ 37,500	Includes well, well vault and associated appurtenances.
Utility Locate	\$1,800	Event	5	\$ 9,000	
Injection Services	\$50,000	Event	5	\$ 250,000	Assumes use of licensed driller in New York. Assumes 10 days per event
Engineer - Labor & Expenses	\$25,000	Event	5	\$ 125,000	Assumes 2 staff members at 10 hours per day, vehicle rental and equipment. Assumes 10 days per event.
Substrate - Emulsified Vegetable Oil	\$18,000	Event	5	\$ 90,000	Assumes 3% solution strength. Includes tax and delivery costs.
4. Maintenance, Monitoring, Permits Closeout				\$ 380,215	
Monitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	19	\$ 79,800	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual Year 5-10
MNA- Laboratory	\$7,150	Event	19	\$ 135,850	
Annual MNA Reporting	\$10,000	Year	10	\$ 100,000	Assumes 10 Years
Five Year Review Reporting	\$15,000	Each	2	\$ 30,000	Assumes 10 Years
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 34,565	Assumes 10 Years
Subtotal - Soil				\$ 2,500,030	
Subtotal - Groundwater				\$ 1,037,715	
Contingency (Assume 20%)				\$ 707,549	
Grand Total				\$ 4,245,294	

Notes:

- Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
- The percentage values for project management, design, and construction management (et cetera) are industry standard values.
- Assumes all construction work will be done in Level D protection.
- Assumes no demolition or repairs to the existing structures.

Removal and Disposal for Exceedances of Unrestricted SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 320,000	
Pre-Design Investigation	\$200,000	Lump Sum	1	\$ 200,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$120,000	Lump Sum	1	\$ 120,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 3,192,714	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 1,947,335	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	55.4	\$ 276,797	
Surveying	\$2,200	Days	77	\$ 169,237	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls - Silt Fence/Straw Wattle	\$8	Linear Foot	19068	\$ 152,544	Use of straw wattle or silt fence.
Construction Entrance	\$12,500	Each	3	\$ 37,500	Costs include 3 construction entrances and routine maintenance
Decontamination Pad/Material Staging Areas	\$30,000	Lump Sum	1	\$ 30,000	
Perimeter Air Monitor	\$6,000	Week	77	\$ 462,000	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak
Dust and Odor Control	\$1,500	Week	77	\$ 115,500	Rental of Water Truck. Operator cost covered under dewatering.
2. Constituents and Remedial Actions				\$ 51,192,170	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	169500	\$ 4,237,500	Based on previous quotes on similar projects
Excavation Support - Trench Box or Equivalent	\$3,500	Week	9	\$ 31,500	To complete 6 ft deep excavation
Post Excavation Sampling	\$75	Each	2940	\$ 220,500	For Constituents of Concern Only
Waste Classification	\$500	Each	339	\$ 169,500	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Additional Excavation, Stockpiling and Loading of Soil - Exceedance Area(s) - 5% Volume	\$40	Cubic yard	8480	\$ 339,200	Assumes 5% of overall excavation volume due to exceedance in post excavation sampling
Furnish Clean Fill and Place	\$55	Tons	198300	\$ 10,906,500	Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place	\$65	Cubic yard	37300	\$ 2,424,500	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500	Acre	46.2	\$ 115,570	
Transport & Disposal - Non-Hazardous	\$81	Tons	254250	\$ 32,747,400	Assumes conversion of 1.5 tons to 1 cubic yard.
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 2,223,748	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$ 60,000	
Contractor Project Management	10%	Lump Sum	1.0	\$ 2,163,748	
In-Situ Bioremediation					
Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 132,500	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$ 60,000	Inclusive of Remedial Action Work Plan, HASP, SOPs
Construction Completion Report/Final Engineering Report	\$60,000	Lump Sum	1	\$ 60,000	Includes Site Management Plan (SMP)
Implementation of Groundwater Use Restriction	\$12,500	Lump Sum	1	\$ 12,500	
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 13,500	
Mobilization/Demobilization - General	\$3,500	Lump Sum	1	\$ 3,500	Land clearing activities to set up decon areas and material staging areas
Soil Erosion and Sedimentation Controls (Silt Fence, BMPs)	\$2,500	Lump Sum	1	\$ 2,500	
Equipment /Material Staging Areas/Decon Pads	\$7,500	Lump Sum	1	\$ 7,500	Established during first event and left in-situ until final event.
2. Constituents and Remedial Actions				\$ 511,500	
Mobilization/Demobilization - Injection Event	\$7,500	Event	5	\$ 37,500	Includes well, well vault and associated appurtenances.
Utility Locate	\$1,800	Event	5	\$ 9,000	
Injection Services	\$50,000	Event	5	\$ 250,000	Assumes use of licensed driller in New York. Assumes 10 days per event
Engineer - Labor & Expenses	\$25,000	Event	5	\$ 125,000	Assumes 2 staff members at 10 hours per day, vehicle rental and equipment. Assumes 10 days per event.
Substrate - Emulsified Vegetable Oil	\$18,000	Event	5	\$ 90,000	Assumes 3% solution strength. Includes tax and delivery costs.
4. Maintenance, Monitoring, Permits Closeout				\$ 380,215	
Monitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	19	\$ 79,800	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual Year 5-10
MNA- Laboratory	\$7,150	Event	19	\$ 135,850	
Annual MNA Reporting	\$10,000	Year	10	\$ 100,000	Assumes 10 Years
Five Year Review Reporting	\$15,000	Each	2	\$ 30,000	Assumes 10 Years
Project Management (% of OM&M Costs)	10%	Lump Sum	1	\$ 34,565	Assumes 10 Years
Subtotal - Soil				\$ 56,928,633	
Subtotal - Groundwater				\$ 1,037,715	
Contingency (Assume 20%)				\$ 11,593,270	
Grand Total				\$ 69,559,617	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.
4. Assumes no demolition or repairs to the existing structures.

Removal and Disposal of Soil for Exceedances of Residential SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 70,000	
Pre-Design Investigation	\$20,000	Lump Sum	1	\$ 20,000	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$50,000	Lump Sum	1	\$ 50,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 24,388	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 6,780	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Lump Sum	1	\$ 2,500	
Surveying	\$2,200	Days	2	\$ 4,400	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls	\$8	Linear Foot	276	\$ 2,208	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Perimeter Air Monitor	\$1,200	Day	1	\$ 1,200	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak
Dust and Odor Control	\$500	Day	1	\$ 500	Rental of Water Truck. Operator cost covered under dewatering.
2. Constituents and Remedial Actions				\$ 33,947	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	110	\$ 2,750	Based on previous quotes on similar projects
Waste Classification	\$500	Each	1	\$ 500	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Furnish Topsoil and Place	\$65	Cubic yard	107	\$ 6,945	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500	Lump Sum	1	\$ 2,500	
Transport & Disposal - Non-TSCA Impacted Soil for Subtitle D (<50ppm)	\$81	Tons	165	\$ 21,252	Assumes conversion of 1.5 tons to 1 cubic yard, 100% Non-Hazardous
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 43,708	
Construction Completion Report/Final Engineering Report/Soil Management Plan	\$40,000	Each	1	\$ 40,000	
Contractor Project Management	10%	Lump Sum	1	\$ 3,708	
Subtotal				\$ 172,044	
Contingency (Assume 20%)				\$ 34,409	
Grand Total				\$ 206,453	

Notes:

- Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
- The percentage values for project management, design, and construction management (et cetera) are industry standard values.
- Assumes all construction work will be done in Level D protection.

Removal and Disposal of Soil for Exceedances of Unrestricted SCOs

Item Description	QTY	Unit Rate	Units	Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$ 80,000	
Pre-Design Investigation	\$20,000	Lump Sum	1	\$ 20,000	
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$ 60,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications
1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 43,164	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 13,328	Assumes mobilization of subcontractor labor, equipment and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$10,000	Lump Sum	1	\$ 5,000	
Surveying	\$2,200	Days	3	\$ 6,600	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls	\$8	Linear Foot	792	\$ 6,336	Use of straw wattle or silt fence.
Construction Entrance	\$5,000	Lump Sum	1	\$ 5,000	
Perimeter Air Monitor	\$1,200	Day	3	\$ 3,600	Assume 3 stations (upwind/downwind). Station includes PID and DustTrak
Dust and Odor Control	\$500	Day	3	\$ 1,500	Rental of Water Truck. Operator cost covered under dewatering.
2. Constituents and Remedial Actions				\$ 203,342	
Excavation, Stockpiling and Loading of Soil	\$25	Cubic yard	750	\$ 18,750	Based on previous quotes on similar projects
Waste Classification	\$500	Each	2	\$ 1,000	Assumes 1 per 500 cubic yards. Assumes standard turn around time.
Furnish Topsoil and Place	\$65	Cubic yard	518	\$ 33,692	Assumes 0.5' -1.0' thick across all disturbed areas.
Seeding	\$5,000	Lump Sum	1	\$ 5,000	
Transport & Disposal - Non-TSCA Impacted Soil for Subtitle D (<50ppm)	\$81	Tons	1125	\$ 144,900	Assumes conversion of 1.5 tons to 1 cubic yard, 100% Non-Hazardous
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$ 60,161	
Construction Completion Report/Final Engineering Report/Soil Management Plan	\$50,000	Each	1	\$ 50,000	
Contractor Project Management	10%	Lump Sum	1	\$ 10,161	
Subtotal				\$ 386,666	
Contingency (Assume 20%)				\$ 77,333	
Grand Total				\$ 463,999	

Notes:

1. Costs are based on costs used for recently developed estimates from similar projects (location, size), professional judgment, executed construction bid documents, and costing tools (RS Means).
2. The percentage values for project management, design, and construction management (et cetera) are industry standard values.
3. Assumes all construction work will be done in Level D protection.

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