

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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Certification in Accordance with DER-10

I, <u>Krista Hankins Mastrocola</u>, 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, PE- NY #092498

Project Engineer of Record



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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 Beno(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 U.S.A. Inc.

COC Constituent of Concern

COPC Constituent of Potential Concern

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

Feasibility Study – OU-1D, OU-1E and OU-3

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 OU1-D, 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 (Snavely 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 zincin 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)
ВАР	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

	Unrestricted		Surfac	e Soil		Near Surface Soil				
Analyte	Use SCO	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 Com	pounds									
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	

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

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

	375-6.8(b) &		Surfac	e Soil			Near Sur	face Soil	
Analyte	CP-51 Residential SCO	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 Com	pounds								
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

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

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

		Site Area(s): O	U-1A			Soil Type: Cha	tfield-Hollis C	omplex	
	House details		Surfac	ce Soil			Near Sui	rface Soil	
Analyte	Unrestricted Use SCO	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 Com	pounds								
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

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

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

		Site Area(s): O	U-1A			Soil Type: Cha	tfield-Hollis (Complex	
	375-6.8(b) &		Surfac	ce Soil			Near Sui	face Soil	
Analyte	CP-51 Residential SCO	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 Com	pounds								
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

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

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

		Site Area(s): O	U-1C, OU-1D,	, OU-2, and por	tions of OU-4	Soil Type: Udo	orthents		
			Surfac	ce Soil			Near Sui	face Soil	
Analyte	Unrestricted Use SCO	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 Com	npounds								
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

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

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

		Site Area(s): O	U-1C, OU-1D,	OU-2, and por	tions of OU-4	Soil Type: Udo	orthents		
	375-6.8(b) &		Surfac	e Soil			Near Sui	face Soil	
Analyte	CP-51 Residential SCO	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 Com	pounds								
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

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

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

		Site Area(s): P	ortions of OU	-4		Soil Type: Ber	nardston silt	loam, 15 to 25 °	% slopes
			Surfac	e Soil			Near Sui	rface Soil	
Analyte	Unrestricted Use SCO	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 Com	npounds								
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

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

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

			ortions of OU	-		Soil Type: Bernardston silt loam, 15 to 25 % slopes				
	375-6.8(b) &		Surfac	e Soil			Near Sur	face Soil		
Analyte	CP-51 Residential SCO	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 Comp	pounds									
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	

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

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

		Site Area(s): O	U-3 & portion	s of OU-1D, OU	J-1E, & OU-4	Soil Type: Pitts	stown silt loa	m, 8 to 15 % slo	opes
			Surfac	ce Soil			Near Su	rface Soil	
Analyte	Unrestricted Use SCO	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 Com	npounds								
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

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

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

		Site Area(s): O	U-3 & portion	s of OU-1D, OU	J-1E, & OU-4	Soil Type: Pittstown silt loam, 8 to 15 % slopes				
	375-6.8(b) &		Surfa	ce Soil			Near Sui	rface Soil		
Analyte	CP-51 Residential SCO	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 Com	pounds									
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	

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

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

		Site Area(s): O	U-1B			Soil Type: Holy	yoke-Rock οι	itcrop complex	
			Surfac	e Soil			Near Su	rface Soil	
Analyte	Unrestricted Use SCO	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 Com	npounds								
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

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

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

		Site Area(s): 0	U-1B			Soil Type: Holyoke-Rock outcrop complex				
	375-6.8(b) &		Surfac	ce Soil			Near Sui	rface Soil		
Analyte	CP-51 Residential SCO	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 Com	pounds									
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	

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



Parameter Name	Parameter Code	375-6.8(b) & CP- 51 POG		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

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
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

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



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	07.04.4			0.05	100	100	4.0		0.045	0.40	10.0	0.40
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	1											
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

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



	POG SCOs	PER SCOs	Unrestricted SCOs	CP-51 & Residential SCOs	CP-51 & Residential- Restricted SCOs	Exceeds Human	Ecological	Exceeds PER	Exceeds POG	Present in	Considered	Considered Further for Remedial
Parameter Name	Frequency	Frequency	Frequency	Frequency	Frequency	Health Criteria	Pathway	Criteria	Criteria	Groundwater	Background	Alternatives
Volatile Organic Compounds Acetone	7/10	0/10	7/10	0/10	0/10	No	No		Yes	No	No	No
Semivolatile Organic Compounds	7/10	0/10	7710	0/10	0/10	INU	INU		162	INO	INU	INU
Benzo(a)anthracene	3/35		2/25	3/35	2/25	Yes	No		Yes	No	No	Yes
			3/35		3/35					No		
Benzo(a)pyrene	0/35	0/35	3/35	3/35	3/35	Yes	No		No	No	No	Yes
Benzo(b)fluoranthene	3/35		5/35	5/35	5/35	Yes	No		Yes	No	No	Yes
Benzo(k)fluoranthene	0/35		3/35	2/35	0/35	Yes	No		No	No	No	Yes
Chrysene	3/35		3/35	3/35	0/35	Yes	No		Yes	No	No	Yes
Dibenz(a,h)anthracene	0/35		3/35	3/35	3/35	Yes	No		No	No	No	Yes
Indeno(1,2,3-cd)Pyrene	0/35		5/35	5/35	5/35	Yes	No		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	No
4,4-DDT	0/7	7/7	7/7	0/7	0/7	No	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

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											<u> </u>	
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

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

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 3-2
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

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

3-2 OU-1D Groundwater Summary.xlsm

^{*} 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

All values are provided in mici NY TOGS: New York Technic USEPA: United States Enviro RSL: Regional Screening Lev

--: Not applicable

3-2 OU-1D Groundwater Summary.xlsm

^{*} Historically Present indicates



	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil	375-6.8(b) & CP-	375-6.8(b) & CP-51			Minimum	Maximum	Non Detection	
Parameter Name	Code	CP-51 POG	CP-51 PER	Cleanup Objectives	51 Residential	Residential-Restricted	Result Count	Detection Count	Detection	Detection	Frequency (%)	Arithmetic Mean
Semivolatile Organic Compounds	s											
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

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
Semivolatile Organic Compounds	S											
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

All values are provided in milligrams pe

--: Not applicable
SCO: Soil Cleanup Objective POG: Protection of Groundwater

PER: Protection of Environmental Res



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

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
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

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 Semivolatile Organic Compounds	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER		375-6.8(b) & CP- 51 Residential		Result Count	Detection Count	Minimum Detection	Maximum Detection	Non Detection Frequency (%)	Arithmetic Mean
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

All values are provided in milligrams per kilogram (mg/kg)

SCO: Soil Cleanup Objective

POG: Protection of Groundwater

PER: Protection of Environmental Resources



Parameter Name Semivolatile Organic Compounds	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
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

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

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

1/2 3-4 OU1E GW.xlsm

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
rans-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
ndeno(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
ron		No	No	Yes	No
_ead		No	No	No	No
Magnesium		No	No	No	No
Manganese		No	No	Yes	No

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

2/2 3-4 OU1E GW.xlsm



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

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

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

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
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

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	POG SCOs Frequency	PER SCOs Frequency		375-6.8(b) & CP- 51 Residential		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

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
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

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		190730	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
	55 57 6	J.7		2	-	0.02	4.2		2.3	1/2	-	140		140	NO

Notes:
All values are provided in micrograms per liter (ug/L)
NYTOGS: 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.

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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.
3011	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.
	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.
Groundwater	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.





Authority	Requirement	Requirement Synopsis					
	Aquifer Recharge Protect	ion					
	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.					
Federal Regulatory	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.					
Requirement	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.					
	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 Threater						
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.					





Authority	Requirement	Requirement Synopsis							
	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								
Federal	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							
Regulatory	Occupation Safety and Health Administration								
Requirement	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.							





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.					
	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						
State Regulatory	New Yok 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.					
Requirement	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 approved from the State prior to transporting the waste. Once approved, the transporting vehicle has to be properly registered to handle the waste with appropriate place. 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 so					





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 Control	s
	New York Standards and	An erosion and sediment control plan must be approved by the Rockland County
	Specifications for Erosion and Sediment Control Regulations	Soil Conservation District.

General Response Action		Technology Options	Description	Implementability	Effectiveness	Cost	Technology Selected	· ·
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	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
	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.	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	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 Residentia SCOs do not allow for implementation of Institutional or Engineering Controls.
Engineering Controls	(or Infiltration Control)	Impermeable Cover		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 Residentia SCOs do not allow for implementation of Institutional or Engineering Controls
	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 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.
Removal/Disposal/ Discharge	Disposal	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.
		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.	required to confirm effectiveness.	e 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.
	Chemical	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.
In-Situ Treatment		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.
	Dhusiaal	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	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.
	Physical	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.
		Stabilization/Solidification	Fixation of soil and contaminants by mixing various reagents ex-situ.	Requires sufficient space to treat material on-site. Bench scale testing	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.
	Chemical	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.
Ex-Situ Treatment		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	Scale. 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

Requires sufficient space to treat material on-site. Requires treating wash fluid after soil treatment. Pilot testing would need to be performed to confirm with varying solutions. Additional contaminated media will be produced that solutions and effectiveness. Pilot test would be required to determine solutions and effectiveness.

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 promote the volatilizes PAHs. Does not treat metals. Pilot test would be required to confirm reagent, dosing and effectiveness.

High capital cost associated with rental of incinerator and an electrical source.

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

Soil Washing

Low-Temperature Thermal Treatment

Physical

365.sharepoint.com/teams/project-30064362/Shared Documents/05 Project execution/03_Deliverables/2021.11 Feasibility Study 1/02_Table/Section 5 - Screening/Table 5-1. Tech Selection Matrix - OU-1D Soil.xisx

Movement of high quantities of water through contaminated soil to desorb contaminants.

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.

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.



General Response Action	Technology	Technology Options	Description	Implementability	Effectiveness	Cost	Technology Selected	Selection Rationale
No Action	No Action	No Action	No Remedial Action is performed for the Site	implementability	Enectiveness	Cost	Yes	Required as a baseline for comparison to other remedial technologies.
Institutional Control	Access	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.
Institutional Control	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.	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	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.
Engineering Cuntois	(or Infiltration Control)	Impermeable Cover		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.
	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.
Removal/Disposal/		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.
Discharge	Disposal	Onsite Consolidation		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.
		Stabilization/Solidification Fixation of soil and contaminants by mixing various		Specialty equipment may be required to ensure proper mixing. Bench scale testing would need to be performed to confirm reagent, dosing and effectiveness.	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.
	Chemical	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 leffectiveness.	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. Bonch code	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.
In-Situ Treatment	Physical	Soil Vapor Extraction	vacuum is applied to a series of extraction wells to	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	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.	effective when treating a 10 soil column. Pilot testing would need to be	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).
		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.
	Chemical	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	Effectiveness would need to be determined by bench scale testing. 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.
Ex-Situ Treatment		Potassium Permanganate		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 tha 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		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
PAHs
SCG
SVE
SCOs
VOCs
SVOCs operation and maintenance polycyclic aromatic hydrocarbons screening, criteria and guidance Soil Vapor Extraction soil cleanup objective Volatile Organic Compounds Semi-volatile Organic Compounds

1/1]Table 5-2. Tech Selection Matrix - OU-1E Soil.xlsx



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.	Implementability	Lifectiveness		Yes	Required as a baseline for comparison to other remedial technologies.
No Action	NO ACION	Site Use (Zoning) restriction		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.
Institutional Control	Access 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.
	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.
Engineering Control		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 regent, if needed.	No	Sporadic point exceedances at asymptotic levels would limit the success of the technology. Not acceptable for meeting Residential as does not not allow for implementation of Institutional or Engineering Controls.
Long Term Monitoring	Long Term	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.
Long Term Monitoring	Monitoring	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	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.
Removal/Disposal/ Discharge	Kemovai	Groundwater Recovery Trenches	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 NYSDEC 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.	t 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.
	Discharge	Reinjection	Reinject treated groundwater meeting NYSDEC 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.
5		Anaerobic Bioremediation		Common use of substrate (e.g., emulsified vegetable oi) 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.
Ex-Onu Treatment	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.

Contaminant of Concern
Chlorinated Volatile Organic Compound
Monitored Natural Attenuation
New York State Department of Environmental Conservation
operation and maintenance
Operable Unit
Publicly Owned Treatment Works
screening, criteria and guidance

Acronyms: COC CVOC MNA NYSDEC O&M OU POTW SCG



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.
In all the later of Countries	Access Restriction	Site Use (Zoning) restriction		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.
Institutional Control		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	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.
	(or Infiltration Control)	Impermeable Cover		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		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		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.
	Chemical Physical	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.
In-Situ Treatment		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.
		Soil Vapor Extraction	enhance volatilization of contaminants. Vapor is	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.		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	and strip out contaminants. Vapors are collected	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.
		Stabilization/Solidification		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.
	Chemical	Fenton's Regent/Hydrogen Peroxide	Use of the hydroxyl radical through Fenton's reagent to oxidize contaminants ex-situ		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.
Ex-Situ Treatment		Potassium Permanganate		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.		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		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
PAHs
SCG
SVE
SCOs
VOCs
SVOCs operation and maintenance polycyclic aromatic hydrocarbons screening, criteria and guidance Soil Vapor Extraction soil cleanup objective Volatile Organic Compounds Semi-volatile Organic Compounds



	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 Performance Criteria		No Action.	Residential Use from 2 to 4 ft Removal and Restricted Resi depth of 2 ft bg eighteen in	d off-site disposal of soil exceeding NYSDEC SCOs for within the Residential Parcel Boundary to a depth ranging t bgs and backfill with clean fill, topsoil and vegetation. d off-site disposal of soil exceeding NYSDEC SCOs for idential Use outside the Residential Parcel Boundary to a gs followed by installation of a permeable soil cover using ches of clean fill, six inches of topsoil and vegetation. plementation of an environmental easement.	Residential Use from 2 to 4 ft Removal and	d off-site disposal of soil exceeding NYSDEC SCOs for within the Residential Parcel Boundary to a depth ranging t bgs and backfill with clean fill, topsoil and vegetation. d off-site disposal of soil exceeding NYSDEC SCOs for e to a depth of 12 ft bgs and backfill with clean fill, topsoil and vegetation.	Residential U ranging from Removal and a Restricted Res to a depth of cover using e	off-site disposal of soil exceeding NYSDEC SCOs for se within the Residential Parcel Boundary to a depth 2 to 4 ft bgs and backfill with clean fill, topsoil and vegetation. off-site disposal of soil exceeding NYSDEC SCOs for idential Use outside the Residential Parcel Boundary 2 ft bgs followed by installation of a permeable soil ighteen inches of clean fill, six inches of topsoil and Implementation of an environmental easement.	Unrestricted excan Removal and o	off-site disposal of soil exceeding NYSDEC SCOs for Use to a ranging from 2 to 4 ft bgs and backfill the vation with clean fill, topsoil and vegetation. off-site disposal of soil exceeding NYSDEC SCOs for se to a depth of 12 ft bgs and backfill with clean fill, topsoil and vegetation.	
Overall Protection of Human Health and the		Not protective of human health and the		Protective of human health and the environment based		Protective of human health and the environment based	0 1	Protective of human health and the environment	- " .	Protective of human health and the environment	
Environment	Poor	environment	Good	on proposed land use.	Good	on proposed land use.	Good	based on proposed land use.	Excellent	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 rall 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 offsite. 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.	

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

Acronyms: COCs ft bgs NYSDEC OU SCO SCG ICs ECs

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



		Alternative 1.		Alternative 2.		Alternative 3.		Alternative 4.		Alternative 5.		Alternative 6.		Alternative 7.
Alternative	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 Performance Criteria		No Action.	SCOs to a dept Excavation and Residential Use Utilization of the in subsurface environment	g of soil exceeding NYSDEC Restricted-Residential Use n of 2 ft bgs using sodium permanganate to treat PAHs. off-site disposal of soil exceeding NYSDEC Restricted- SCOs to a depth of 2 ft bgs for metals and backfill with clean fill, topsoil and vegetation. currently in place permeable soil cover for exceedances at the former Chemical Burial Site 3. Implementation of tall easement for Restricted-Residential Use SCOs. of institutional controls to restrict access to groundwater. Monitoring for natural attenuation.	Residential Use Utilization exceedance Implementation	off-site disposal of soil exceeding NYSDEC SCOs for to a depth of 2 ft bgs and backfill with clean fill, topsoil and vegetation. of the currently in place permeable soil cover for is in subsurface at the former Chemical Burial Site 3. n of environmental easement for Restricted-Residential Use SCOs. Intation of institutional controls to restrict access to undwater. Monitoring for natural attenuation.	for Unrestricte	off-site disposal of soil exceeding NYSDEC SCOs d Use to a maximum depth of 6 ft bgs and backfill with clean fill, topsoil and vegetation. ation of institutional controls to restrict access to dwater. Monitoring for natural attenuation.	SCOs to a dep Excavation and Residential Us Utilization of the in subsurface environme Injection of ferm to stimulate ar	ng of soil exceeding NYSDEC Restricted-Residential Use the 0.2 th bgs using sodium permanganate to treat PAIs of 16-fisted tisposal of soil exceeding NYSDEC Restricted-es CCOs to a depth of 2 th bgs for metals and backfill with clean fill, topsoil and vegetation. It is currently in place permeable soil cover for exceedances at the former Chemical Burial Site 3. Implementation of ratal easement for Restricted-Residential Use SCOs. rentable substrate (for example: Emulsified Vegetable Oil) aerobic bioremediation of groundwater in-situ. Injection bial growth to facilitate the degradation of contaminants.	Utilizatio exceedance Implementatio Injection of fer Oil) to stimu	e to a depth of 2 ft bgs and backfill with clean fill, topsoil and vegetation. In of the currently in place permeable soil cover for es in subsurface at the former Chemical Burial Site 3. on of environmental easement for Restricted-Residential Use SCOs. In environmental easement for Restricted-Residential Use SCOs.	Injection o Vegetabl groundwate	I off-site disposal of soil exceeding NYSDEC SCOs ed Use to a maximum depth of 6 ft bgs and backfill with clean fill, topsoil and vegetation. of fermentable substrate (for example: Emulsified le Oil) to stimulate anaerobic bioremediation of er in-situ. Injection stimulates microbial growth to cilitate the degradation of contaminants.
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. Timeframe dependent on duration of excavation. 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. Timeframe dependent on duration of excavation. 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 contamin
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 shorterm 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 plot 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 wet		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 soll in exceedance of NYSDEC SCOs and import of certified clean fill. Would actively destroy wet
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.

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



		Alternative 1.		Alternative 2.	Alternative 3.			
Alternative	Rating	Rating No Action		Removal and Disposal of Soil for Exceedances of Residential SCOs	Rating	Removal and Disposal of Soil for Exceedances of Unrestricted SCOs		
Description		No Action.		d off-site disposal of soil exceeding NYSDEC SCOs for e 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.		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.		

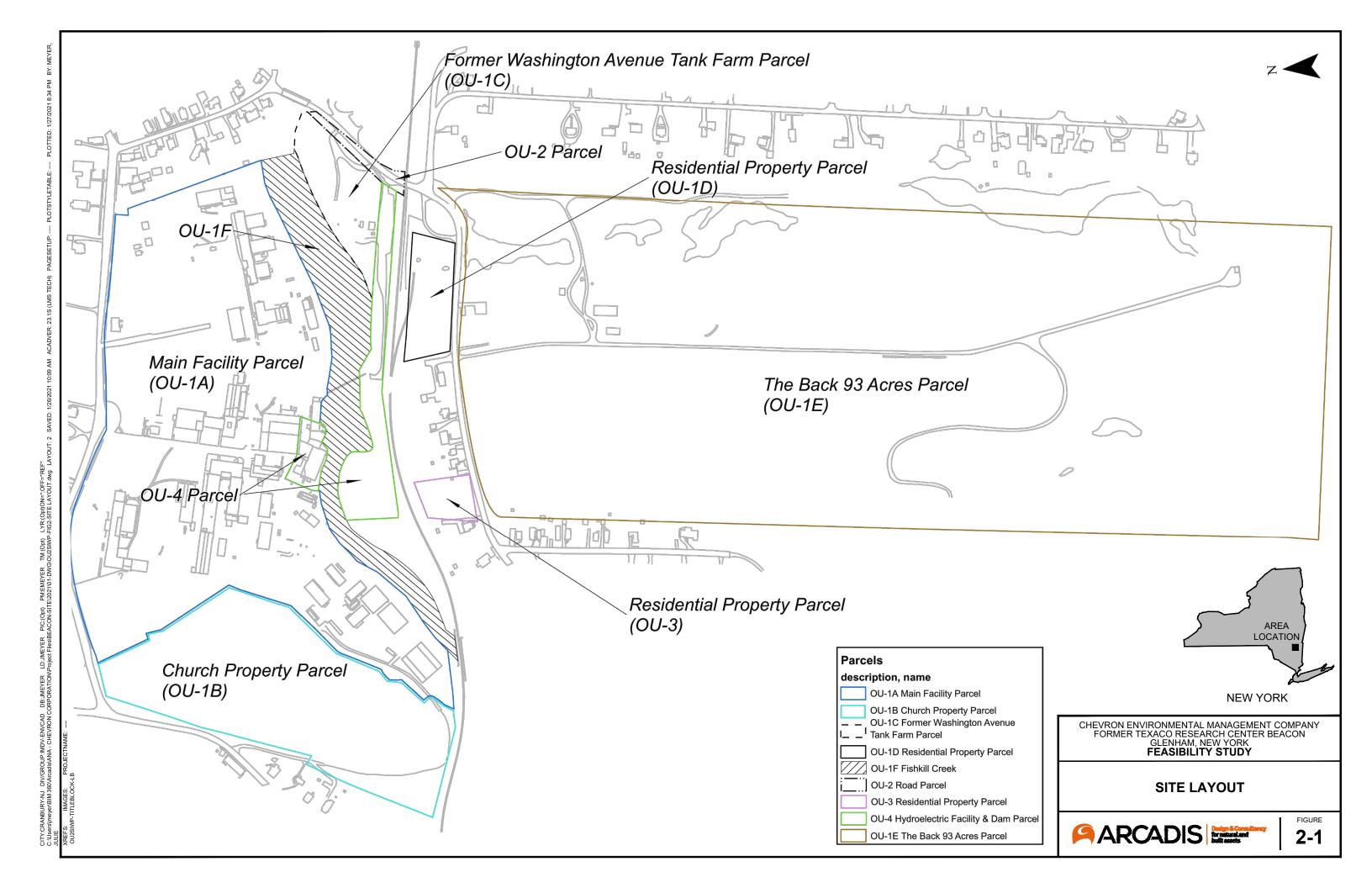
Acronyms: COCs

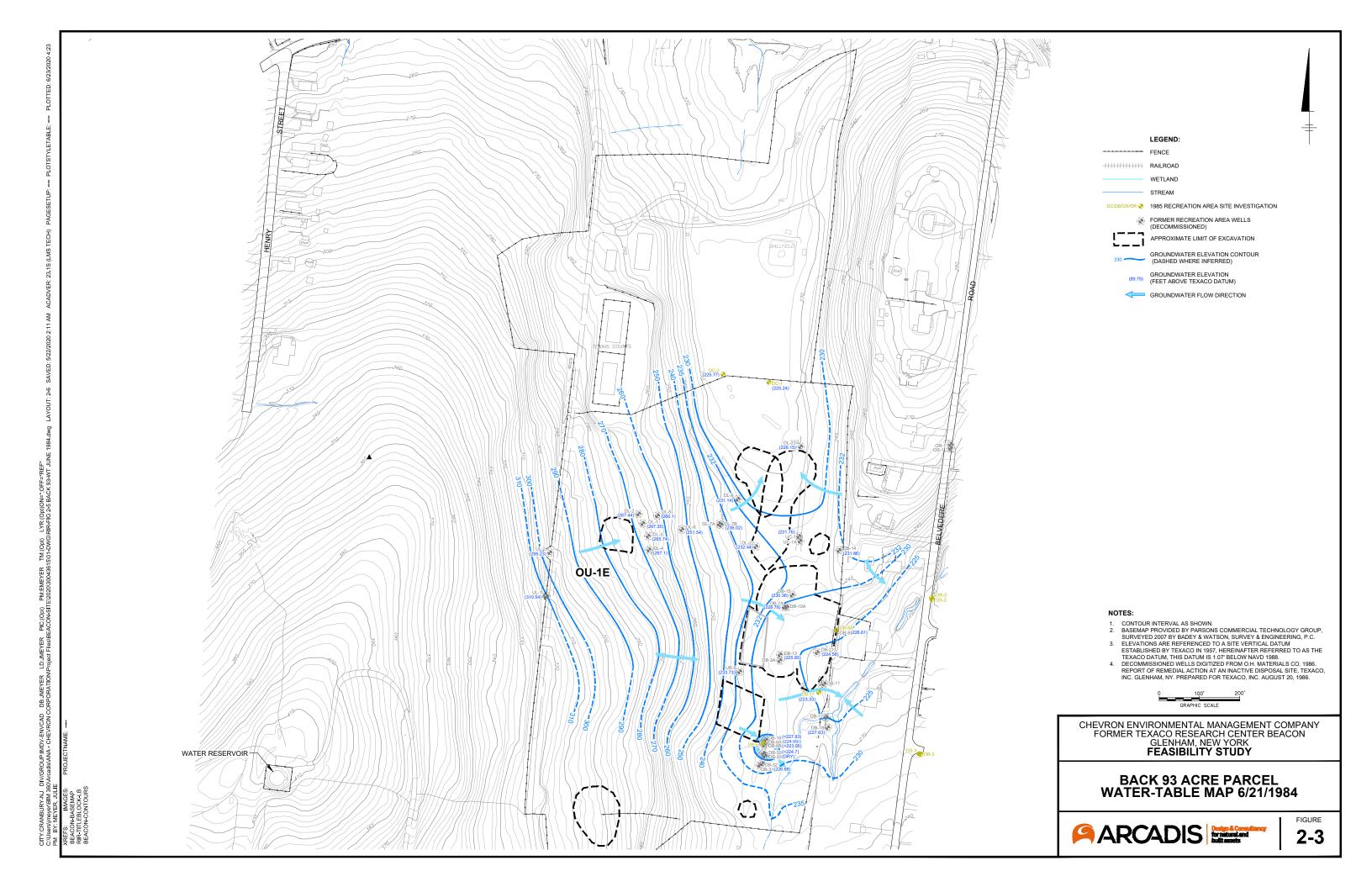
ft bgs NYSDEC SCO SCG

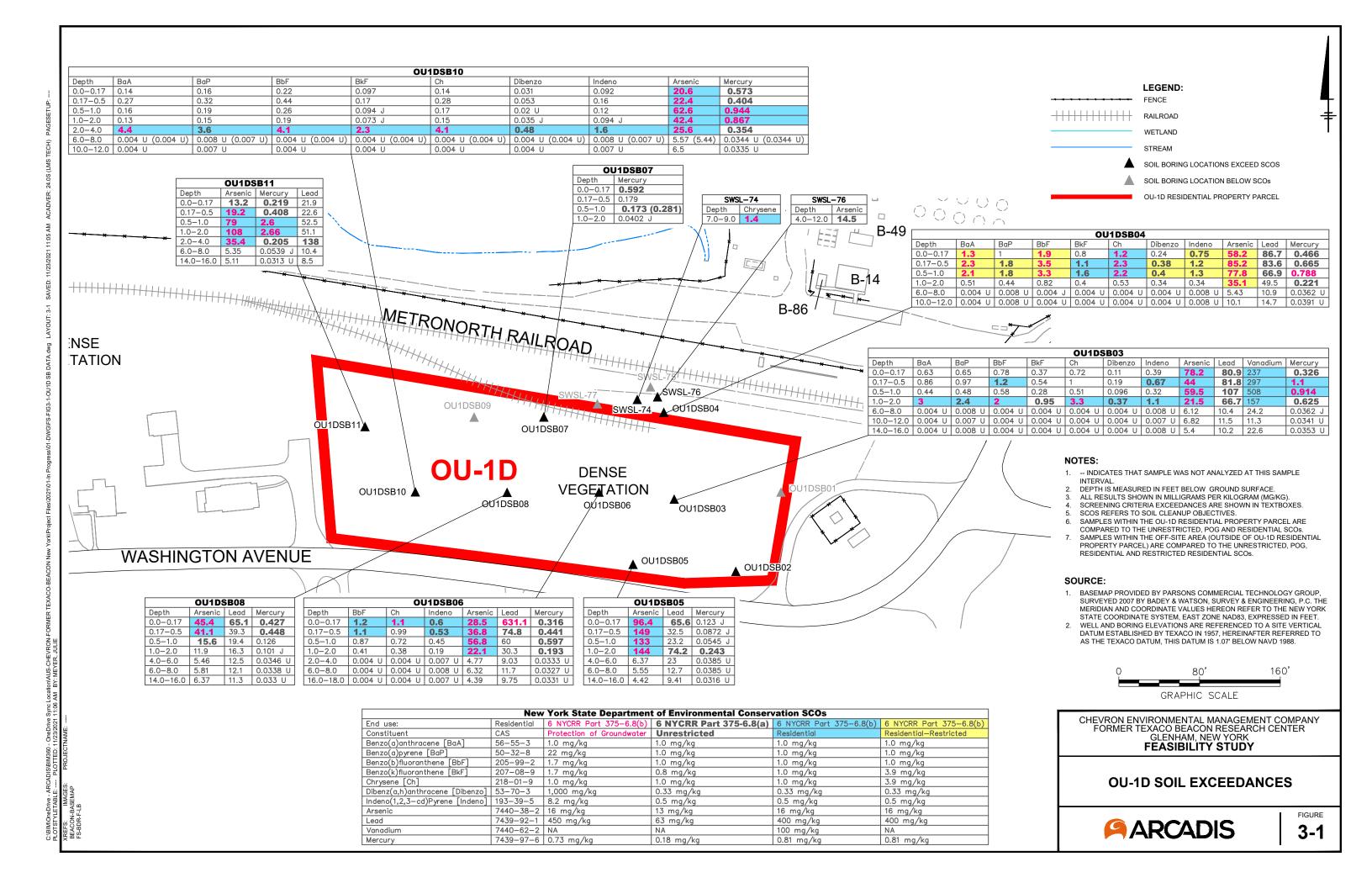
Constituents of Concern feet below ground surface New York State Department of Environmental Conservation Soil Cleanup Objectives
Standards, Criteria, and Guidance

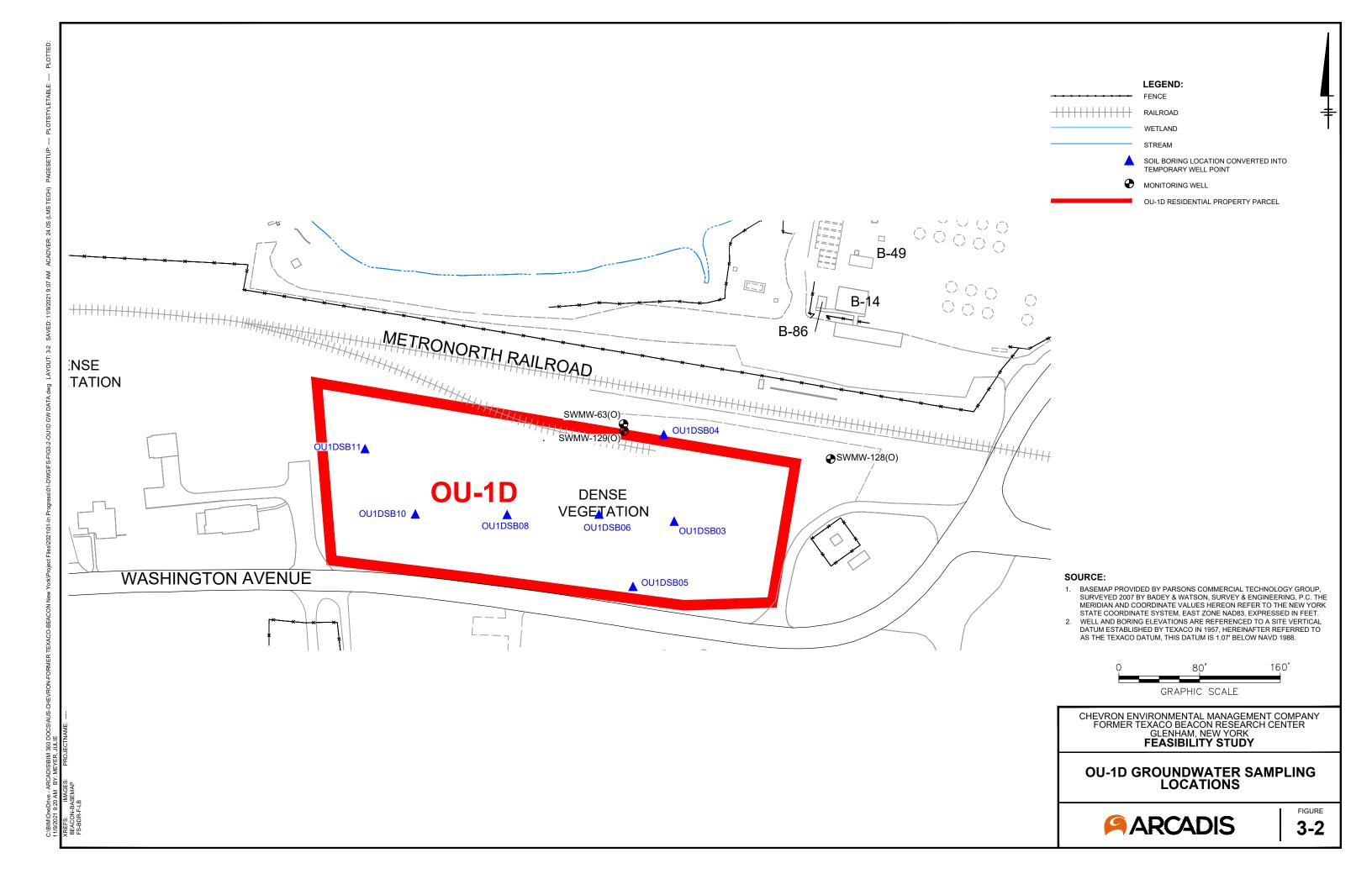
Ratings:
Poor - Indicates Unsatisfactory Aspect
Adequate - Indicates Challenging Aspect
Good - Indicates Reasonable Acceptable Aspect
Excellent - Indicates Preferable Aspect

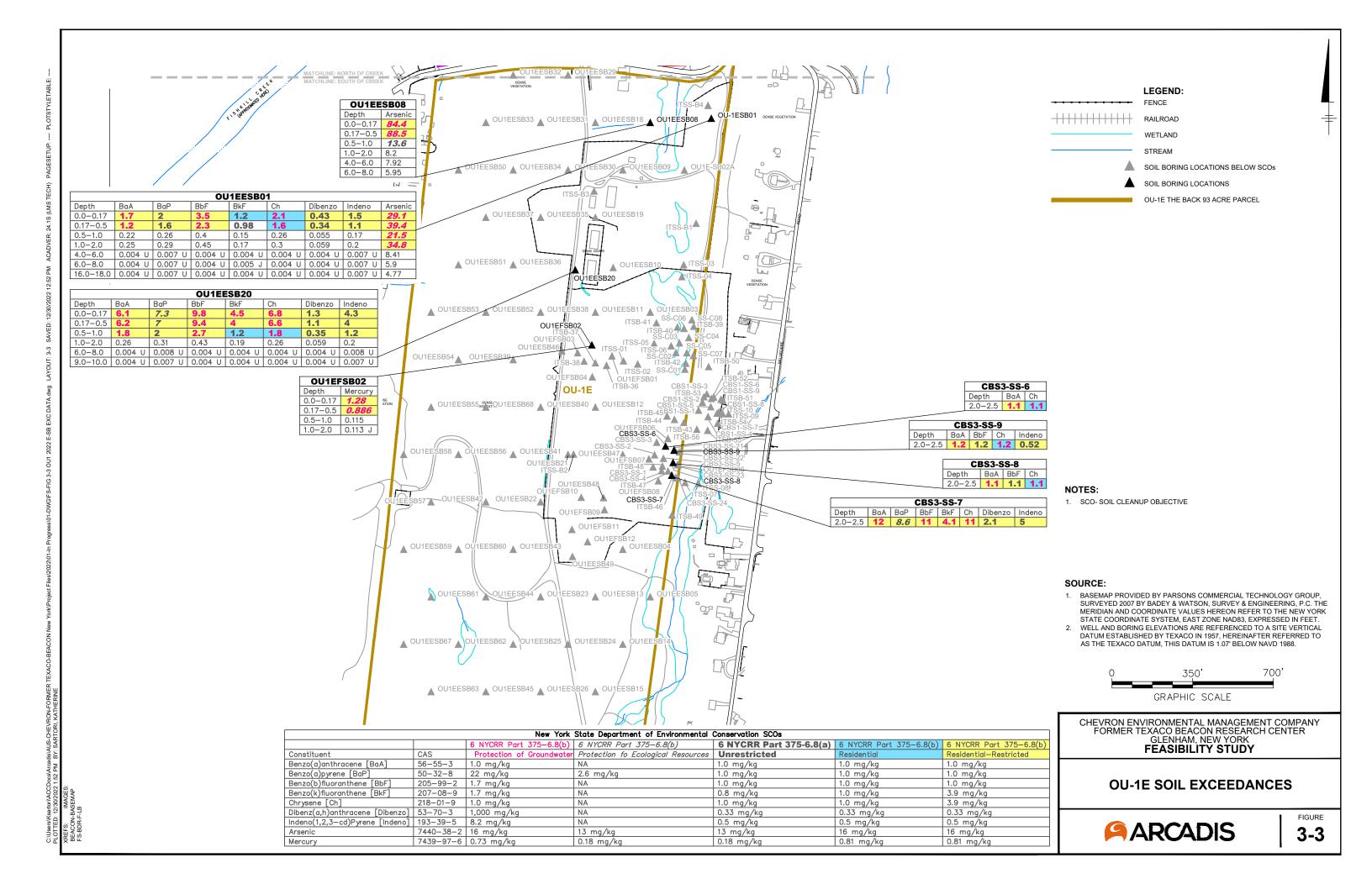
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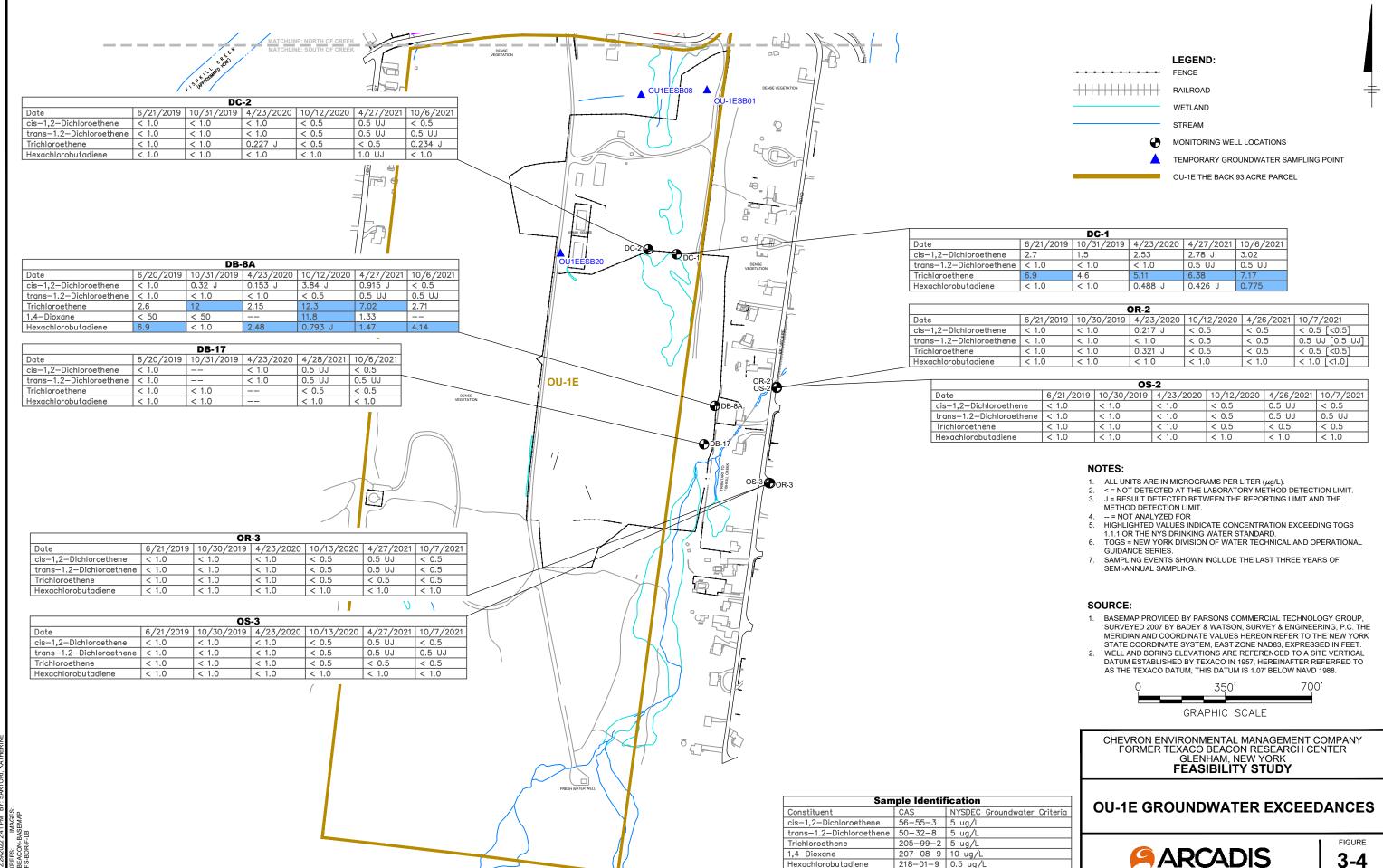










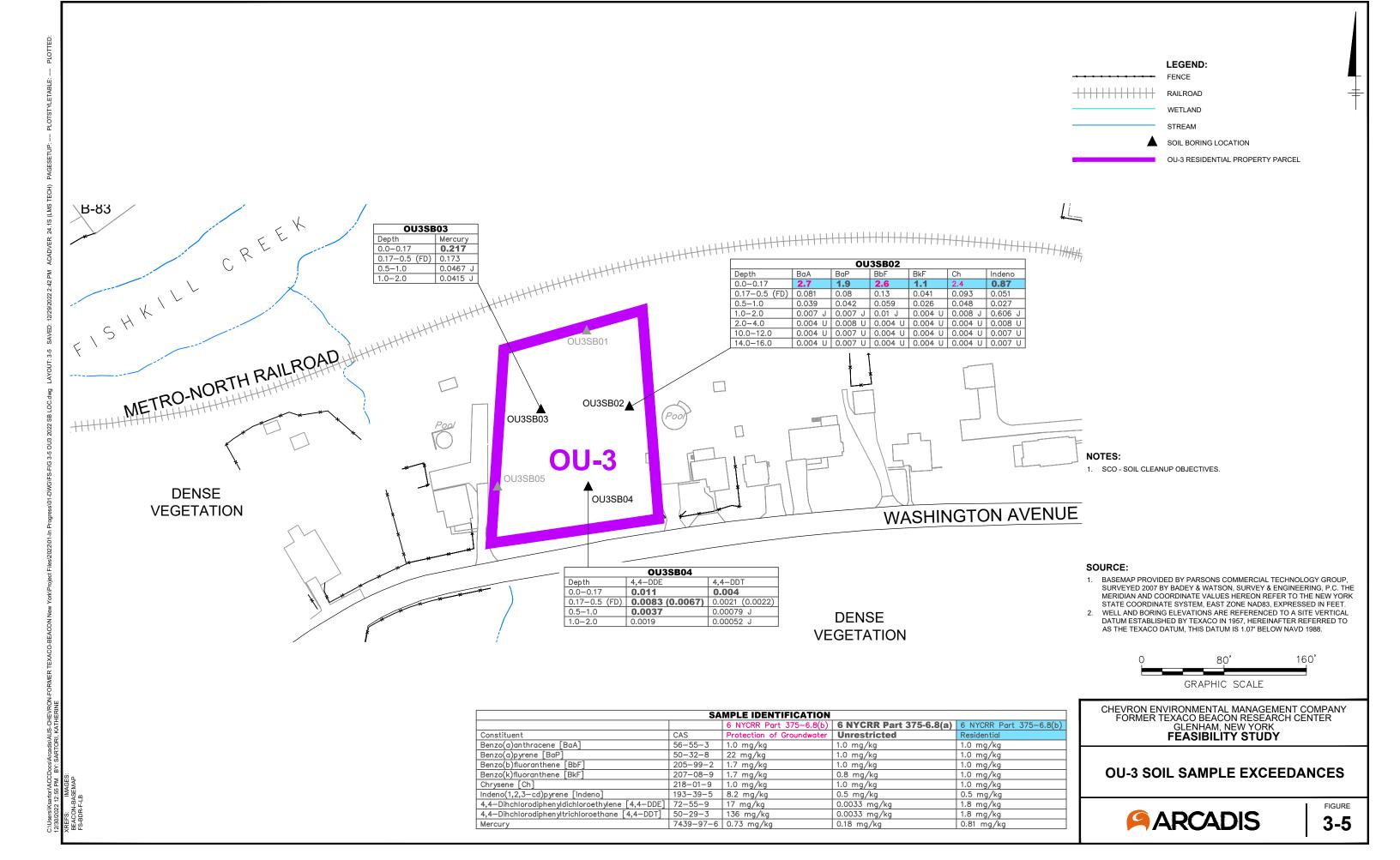


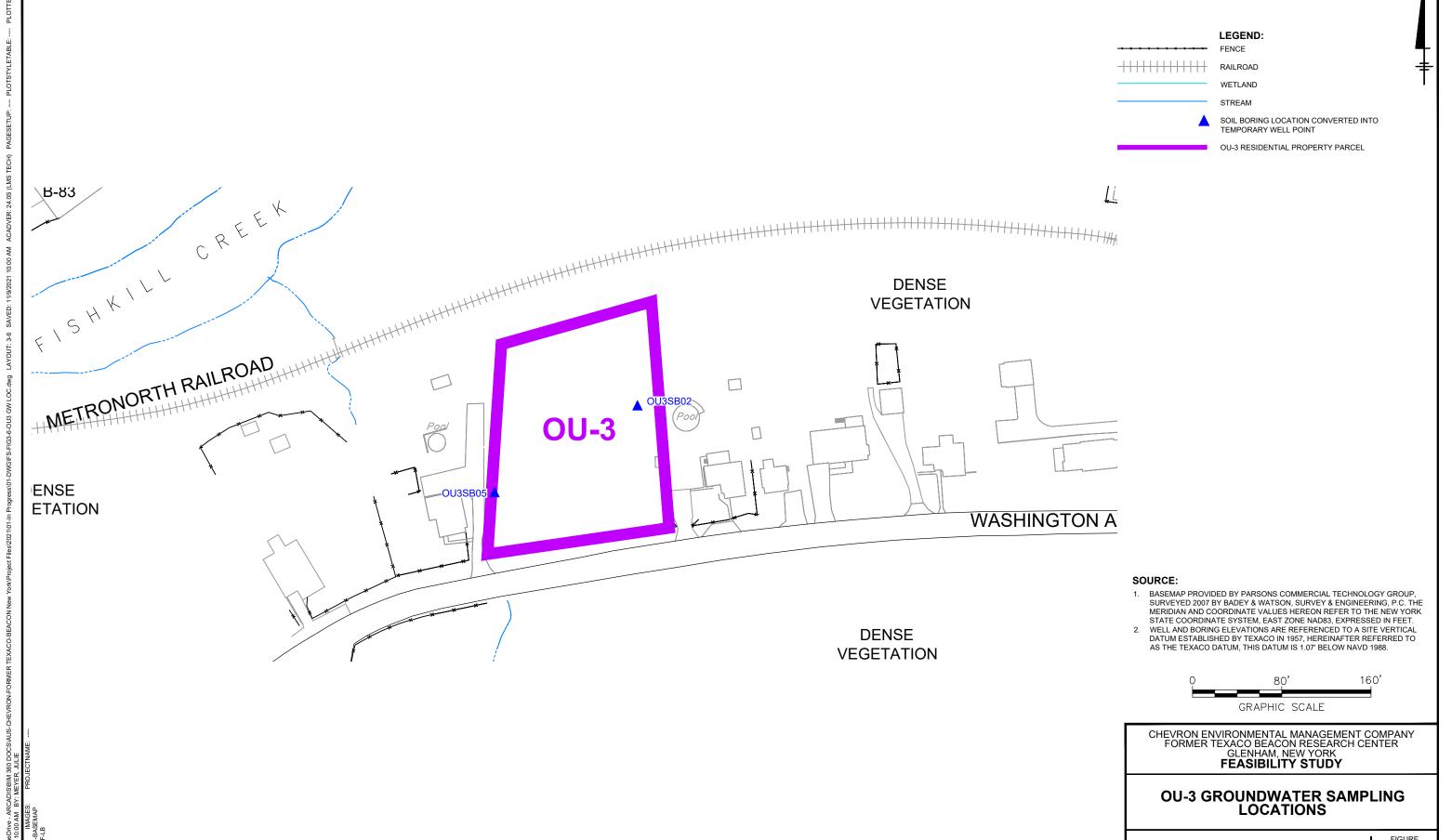
207-08-9 10 ug/L

218-01-9 | 0.5 ug/

1.4-Dioxane

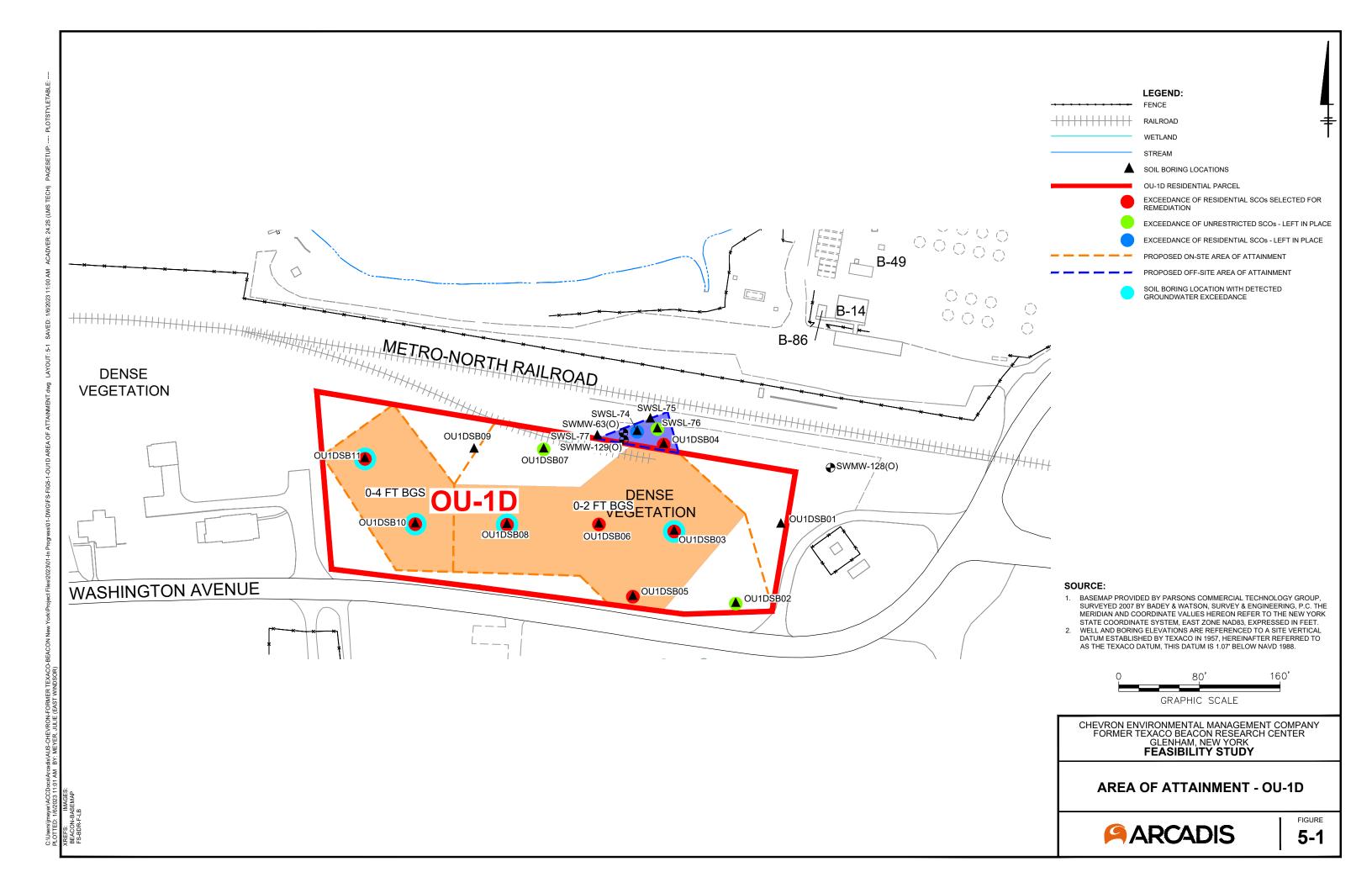
Hexachlorobutadiene

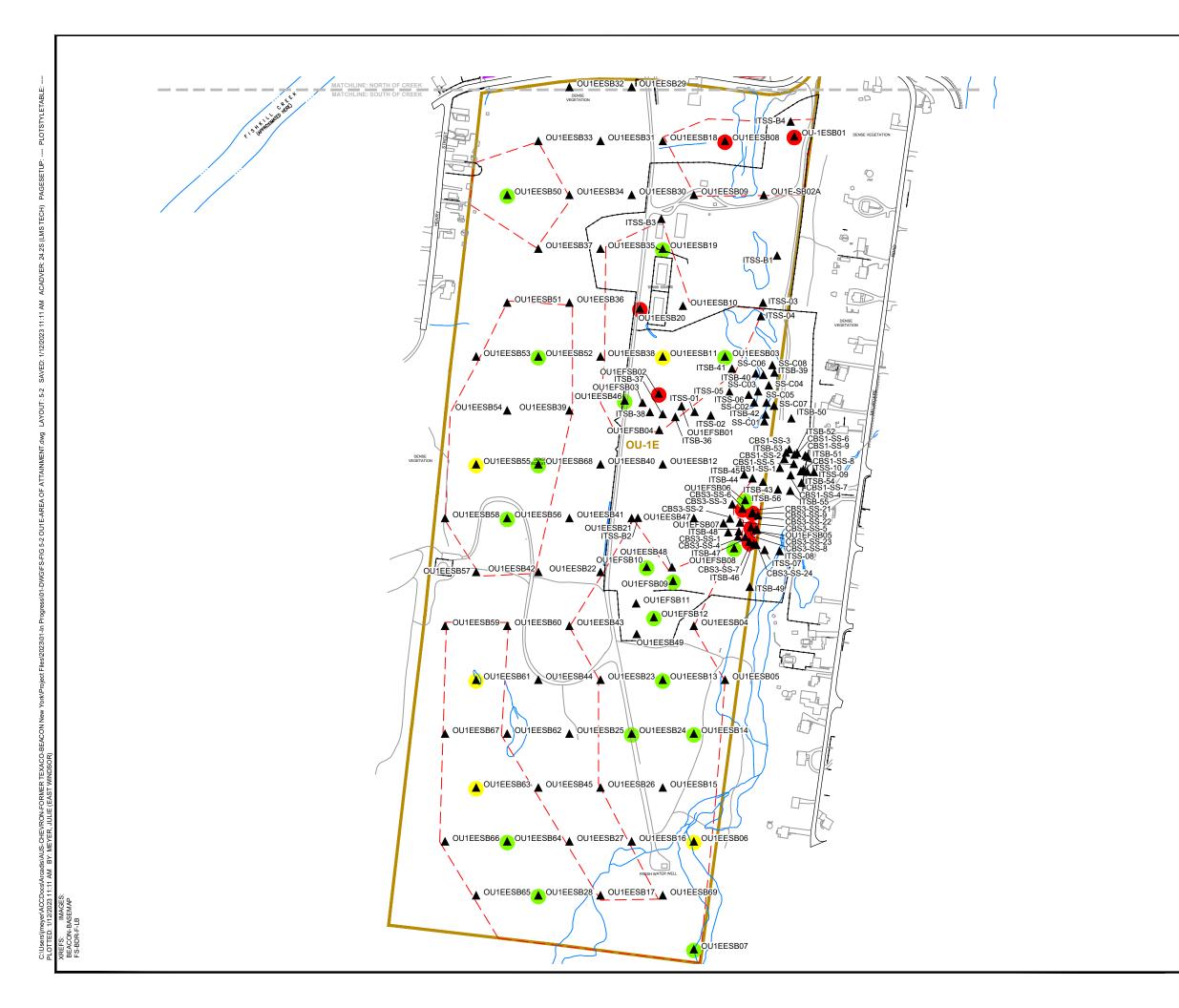




3-6

ARCADIS





LEGEND:
FENCE
RAILROAD
WETLAND
STREAM
SOIL BORING LOCATIONS
OU-1E THE BACK 93 ACRE PARCEL
EXCEEDANCE OF RESIDENTIAL SCOS -LEFT IN PLACE
EXCEEDANCE OF RESIDENTIAL SCOS - SELECTED FOR REMEDIATIION
EXCEEDANCE OF UNRESTRICTED SCOS - LEFT IN PLACE
PROPOSED AREA OF ATTAINMENT

NOTES:

1. 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.
- 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.

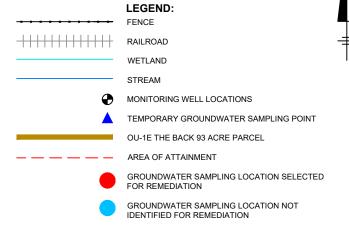


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY FORMER TEXACO BEACON RESEARCH CENTER GLENHAM, NEW YORK FEASIBILITY STUDY

AREA OF ATTAINMENT - OU-1E SOIL



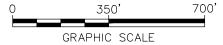
FIGURE



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 NADRS EXPRESSED IN EFET.
- 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

AREA OF ATTAINMENT - OU-1E GROUNDWATER

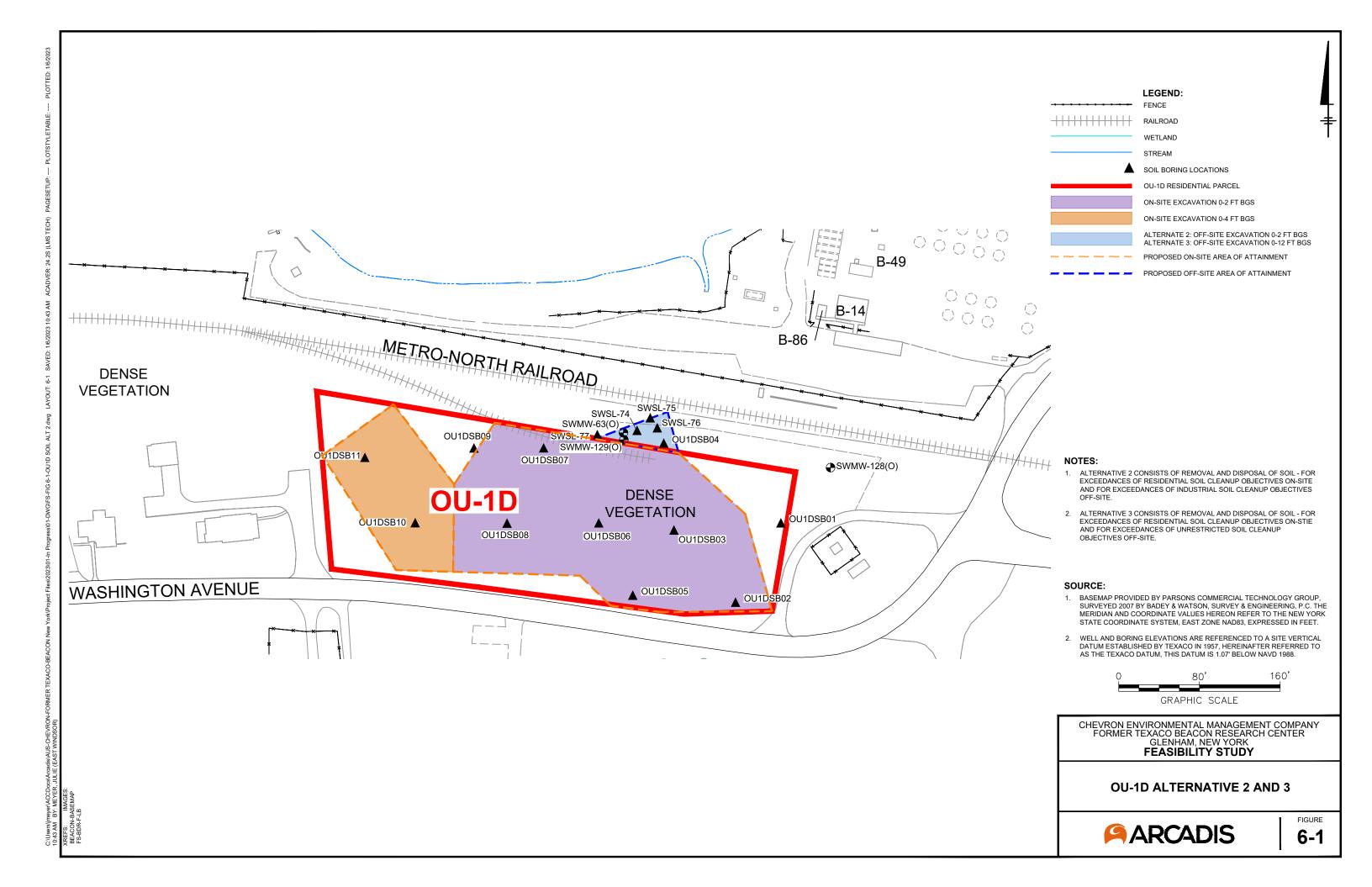


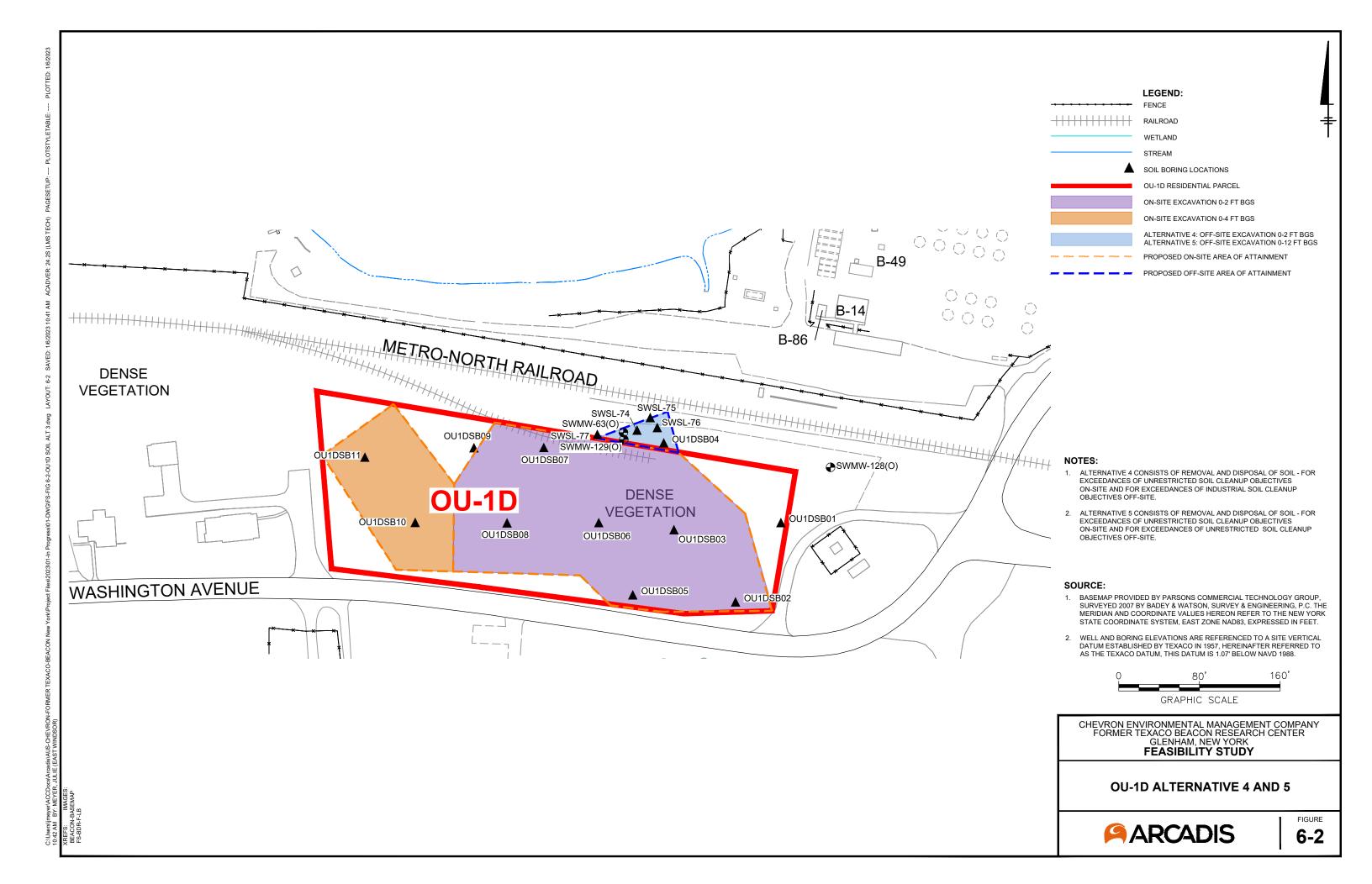
FIGURE

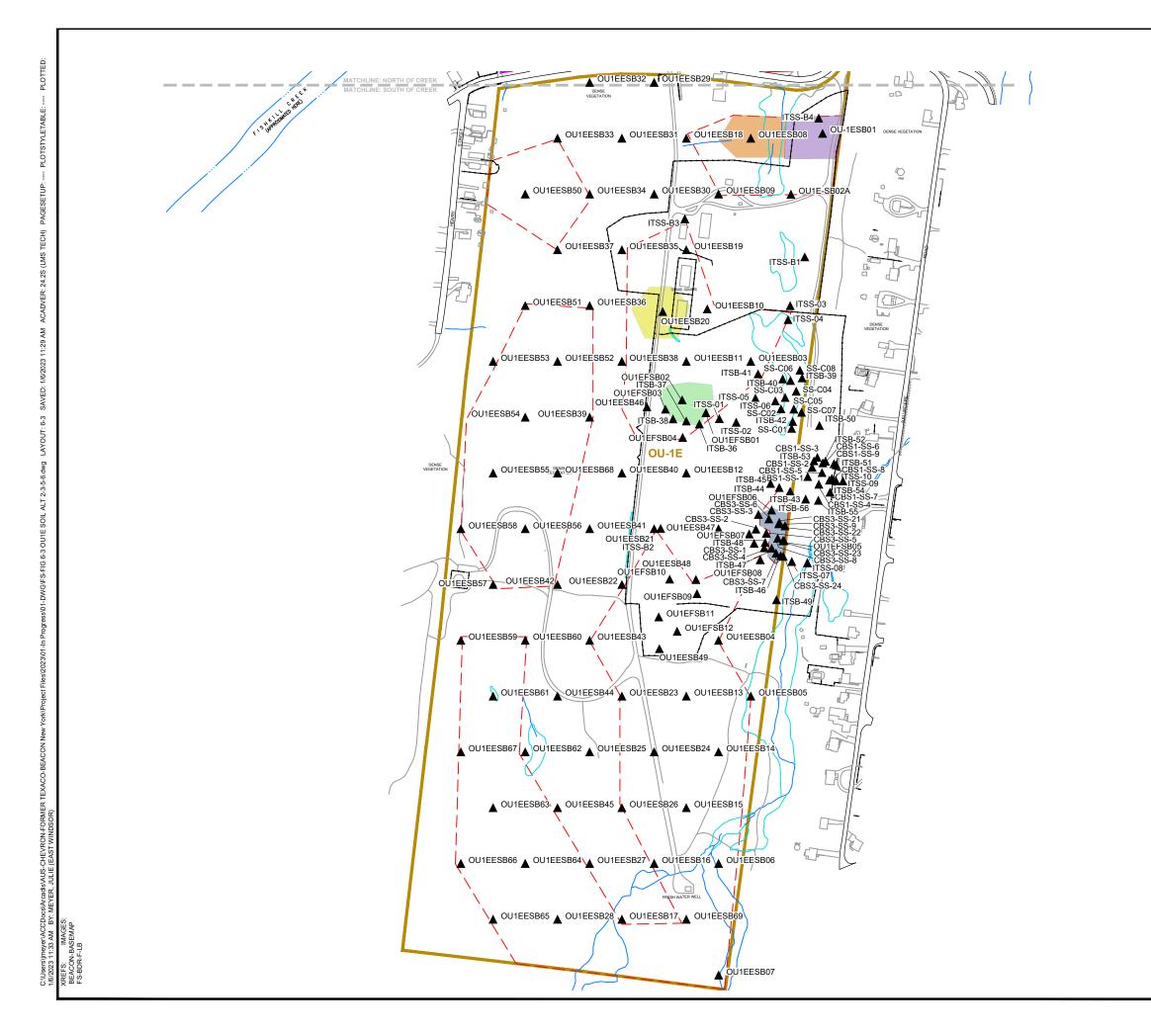
AREA OF ATTAINMENT - OU-3

5-4

ARCADIS







RAILROAD

WETLAND

STREAM

SOIL BORING LOCATIONS

OU-1E THE BACK 93 ACRE PARCEL

ALTERNATIVE 2: EXCAVATION 0-1 FT

ALTERNATIVE 5: EXCAVATION 0-1 FT

ALTERNATIVE 6: EXCAVATION 0-1 FT

ALTERNATIVE 6: EXCAVATION 0-2 FT

ALTERNATIVE 3: EXCAVATION 0-2 FT

ALTERNATIVE 5: EXCAVATION 0-2 FT

ALTERNATIVE 6: EXCAVATION 0-2 FT

ALTERNATIVE 6: EXCAVATION 0-2 FT

ALTERNATIVE 2: PERMEABLE SOIL COVER 0-2 FT

ALTERNATIVE 3: PERMEABLE SOIL COVER 0-2 FT

ALTERNATIVE 6: PERMEABLE SOIL COVER 0-2 FT

ALTERNATIVE 6: PERMEABLE SOIL COVER 0-2 FT

ALTERNATIVE 6: PERMEABLE SOIL COVER 0-2 FT

ALTERNATIVE 2: STABILIZATION/SOLIDIFICATION 0-2 FT

ALTERNATIVE 2: STABILIZATION/SOLIDIFICATION 0-2 FT

ALTERNATIVE 3: EXCAVATION 0-2 FT

LEGEND: FENCE

NOTES:

. ALTERNATIVE 2 CONSISTS OF IN-SITU SOIL MIXING AND REMOVAL FOR EXCEEDANCES OF RESTRICTED RESIDENTIAL SCOS & MONITORED NATURAL ATTENUATION FOR GROUNDWATER

ALTERNATIVE 5: STABILIZATION/SOLIDIFICATION 0-2 FT

ALTERNATIVE 6: EXCAVATION 0-2 FT

ALTERNATIVE 2: EXCAVATION 0-0.5FT ALTERNATIVE 3: EXCAVATION 0-0.5FT

ALTERNATIVE 5: EXCAVATION 0-0.5FT ALTERNATIVE 6: EXCAVATION 0-0.5FT

 ALTERNATIVE 3 CONSISTS OF REMOVAL AND DISPOSAL FOR EXCEEDANCES OF RESTRICTED RESIDENTIAL SCOS & MONITORED NATURAL ATTENUATION FOR GROUNDWATER

— — PROPOSED AREA OF ATTAINMENT

- 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.

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.

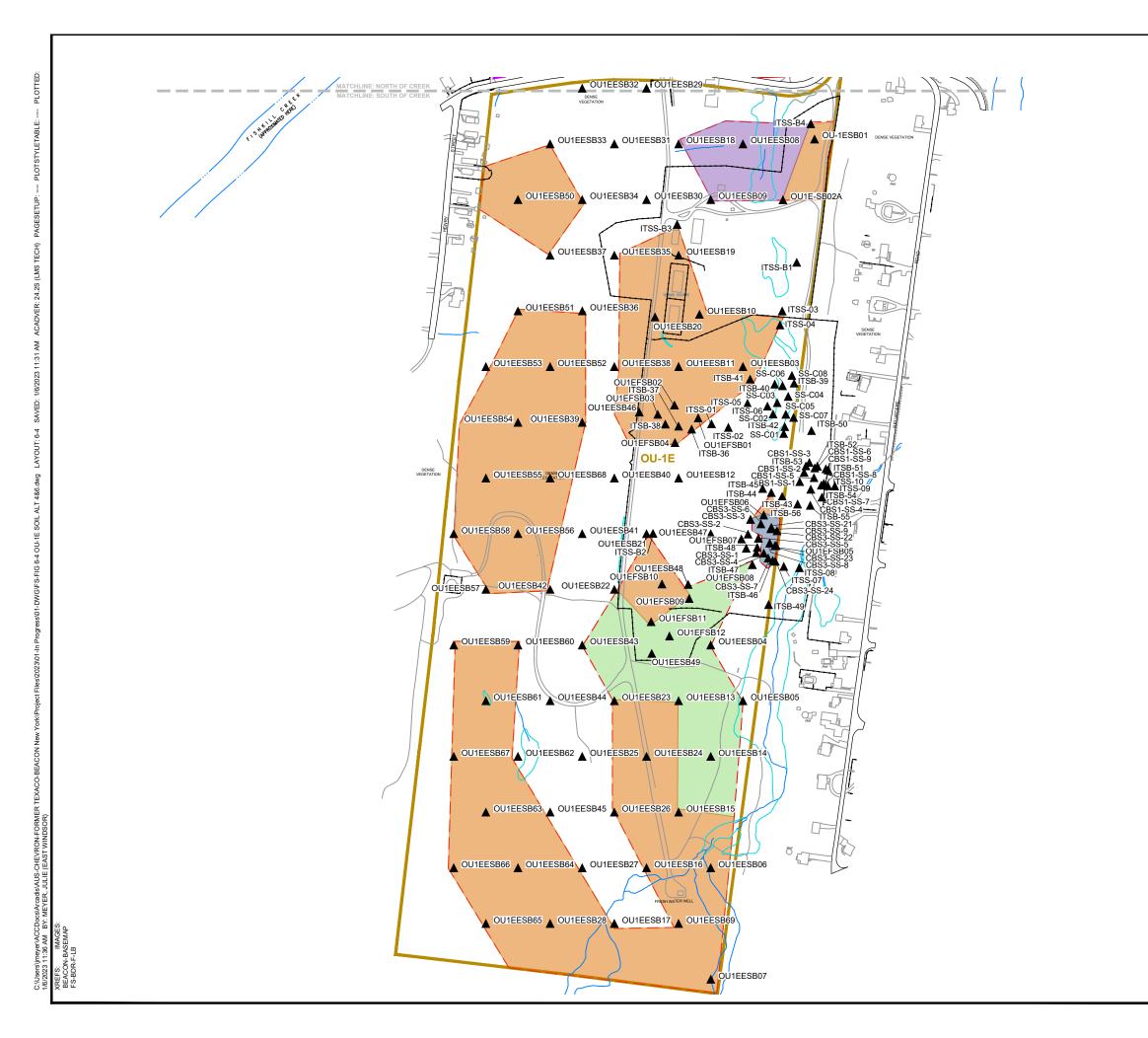


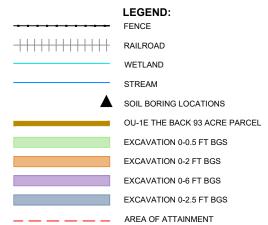
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY FORMER TEXACO BEACON RESEARCH CENTER GLENHAM, NEW YORK FEASIBILITY STUDY

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



FIGURE



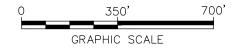


NOTES:

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

SOURC

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

OU-1E ALTERNATIVES 4 & 6



FIGURE

ALTERNATIVE 2 CONSISTS OF REMOVAL AND DISPOSAL OF SOIL - FOR EXCEEDANCES OF RESIDENTIAL SOIL CLEANUP OBJECTIVES.

LEGEND: FENCE RAILROAD WETLAND STREAM

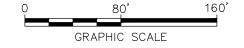
SOIL BORING LOCATION

EXCAVATION 0-0.5 FT BGS PROPOSED AREA OF ATTAINMENT

OU-3 RESIDENTIAL PROPERTY PARCEL

SOURCE:

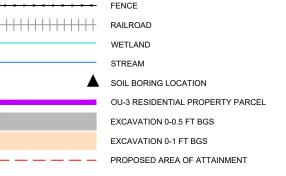
- BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED 2007 BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
- 2. WELL AND BORING ELEVATIONS ARE REFERENCED TO A SITE 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-3 ALTERNATIVE 2

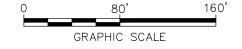




LEGEND:

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

- 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.
- 2. 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-3 ALTERNATIVE 3



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

ORDER ON CONSENT

Index # 03-1112-08-12

Site # 314004

By

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

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 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

- Respondent has set forth in paragraph (B) below (and the Department has A. 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. 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. <u>Submission/Implementation of Work Plans</u>

- 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 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.
- 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).
- 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.
- 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 \$ite

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' 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 \$tate 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' 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
kma@6@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 0CT 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):_ Print Name: Z Title:_ REAC	Brian J KELLY PROPERTY OFFICE	EER
		Date: Oct	OBER 29, 2013	
ACKNOWLEDGM	ENT			
STATE OF) ss:	;		
On the	dayaof to me ki	in the year	before me personally me duly sworn, did depose an	came d sav
that s/he reside		20 11		
that s/he is the		of	ha abassa tarahassa and ibas	_, the
signed his/her name	thereto by authority	of the member(s) of s	he above instrument; and that and limited liability company.	i s/ne
Notary Public Signature and Office	of individual taking	acknowledgment		

State of California)
County of Orange	
on Ottober 29 2013 before me	Robin K Radique Notary Rubli
personally appeared Bua	Name(s) of Signer(s)
	who proved to me on the basis of satisfactor evidence to be the person(s) whose name(s) is/a subscribed to the within instrument and acknowledge to me that he/s/le/th/ey executed the same his/her/th/eir authorized capacity(ies), and that his/her/th/eir signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
ROBIN K. RODRIGUEZ Commission # 2029972 Notary Public - California Orange County	
My Comm. Expires Jul 18, 20	WITNESS my hand and official seal.
Disas Nation Coul Above	Signature: Robin K Roduiques
Place Notary Seal Above	- OPTIONAL -
and could prevent fraudulent	quired by law, it may prove valuable to persons relying on the document t removal and reattachment of this form to another document.
Description of Attached Document Title or Type of Document:	or on Consort
Document Date: October 2	9, 2013 Number of Pages: 19
Signer(s) Other Than Named Above:	
Capacity(ies) Claimed by Signer(s	
Signer's Name:	
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
Individual	HT THUMBPRINT Individual RIGHT THUMBPRING OF SIGNER OF SIGNER
☐ Partner — ☐ Limited ☐ General Top	of thumb here Partner — Limited General Top of thumb here
Attorney in Fact	☐ Attorney in Fact
United and the second of	☐ Trustee ☐ Guardian or Conservator
Trustee	A Disease 1
United and the second of	☐ Other:
☐ Trustee ☐ Guardian or Conservator	Signer Is Representing:

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.

<u>Duration</u>. 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.

<u>Headings</u>. 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.

<u>Service</u>. 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

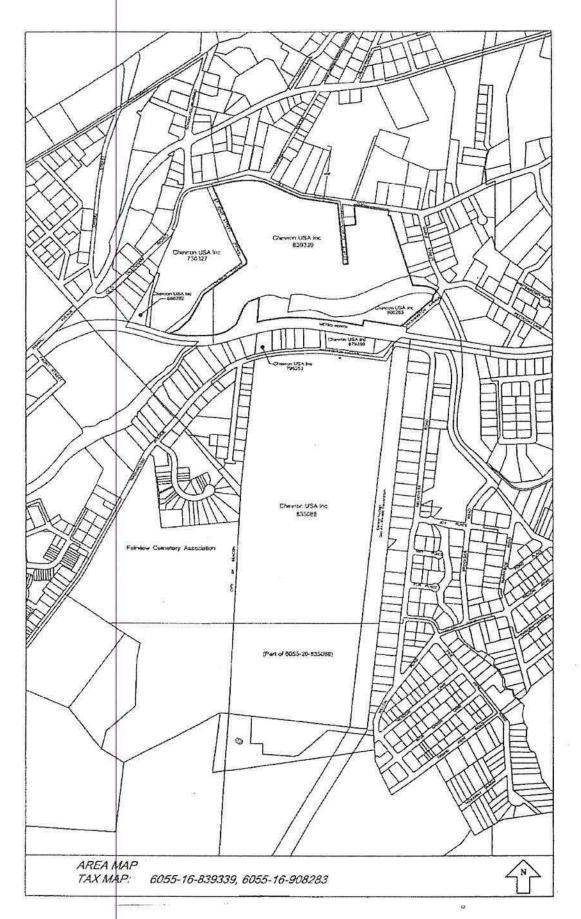
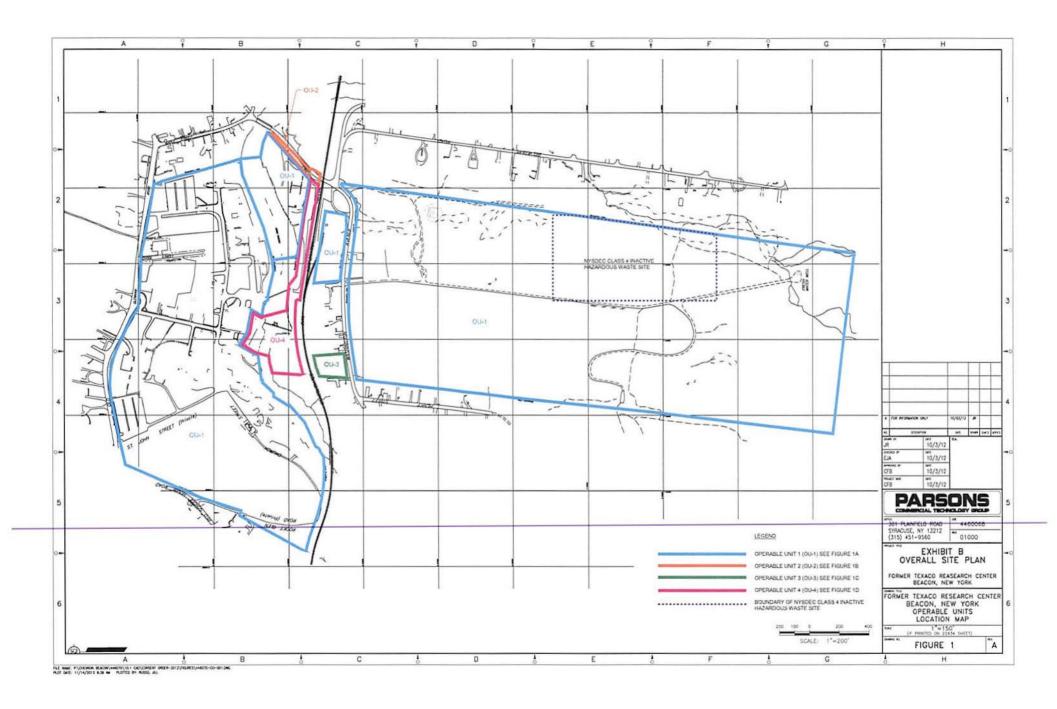
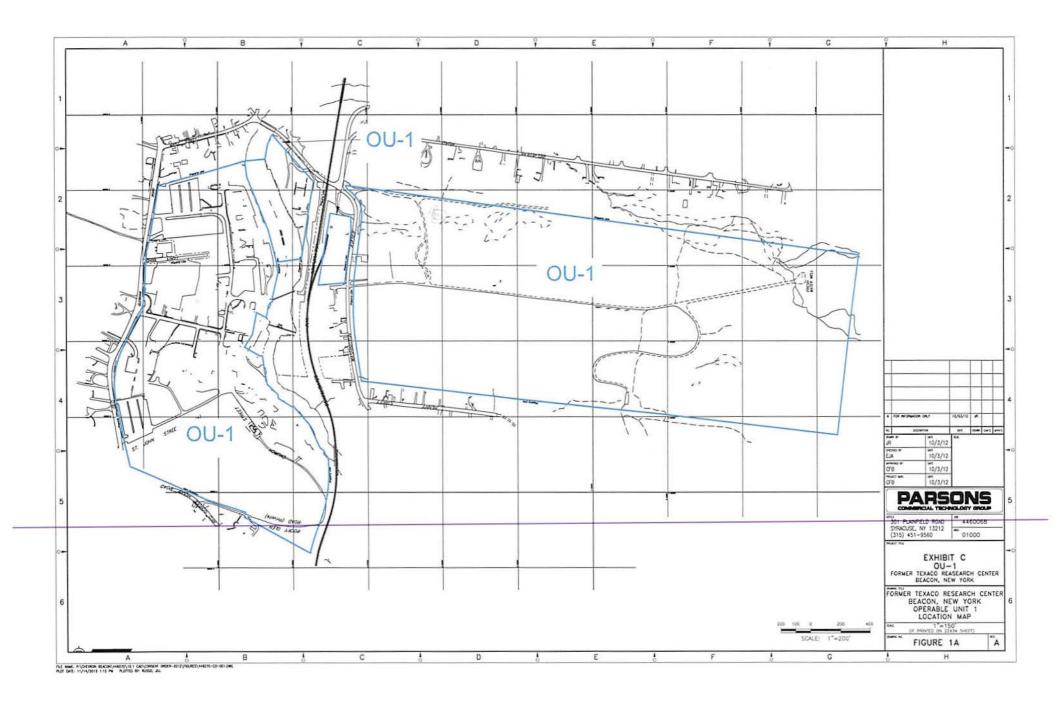
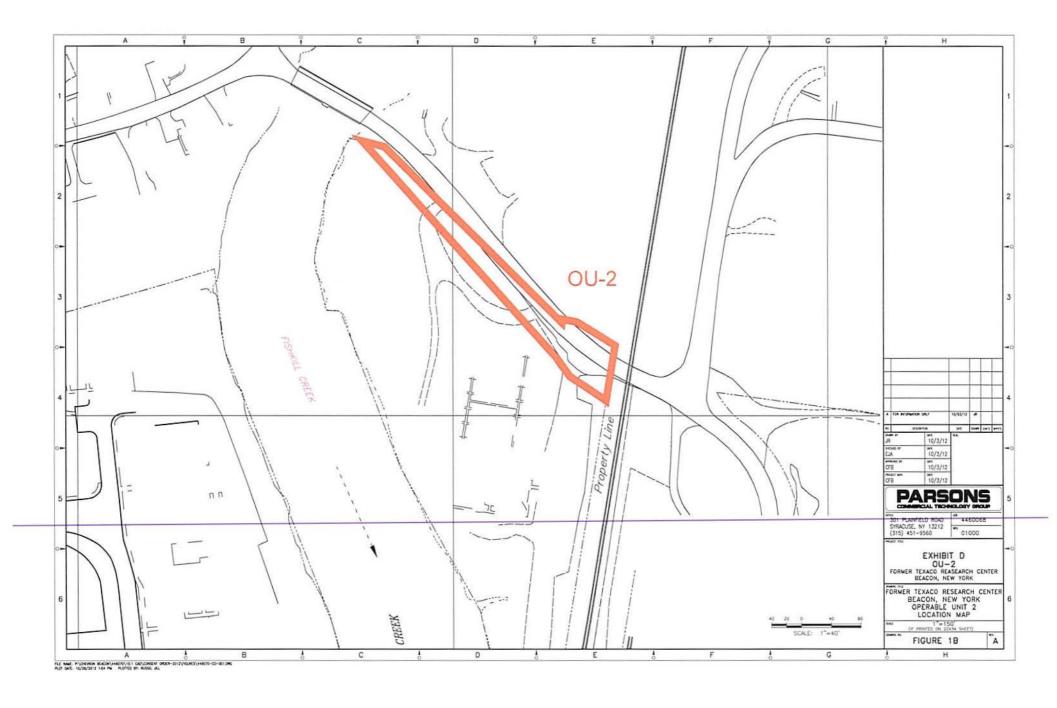
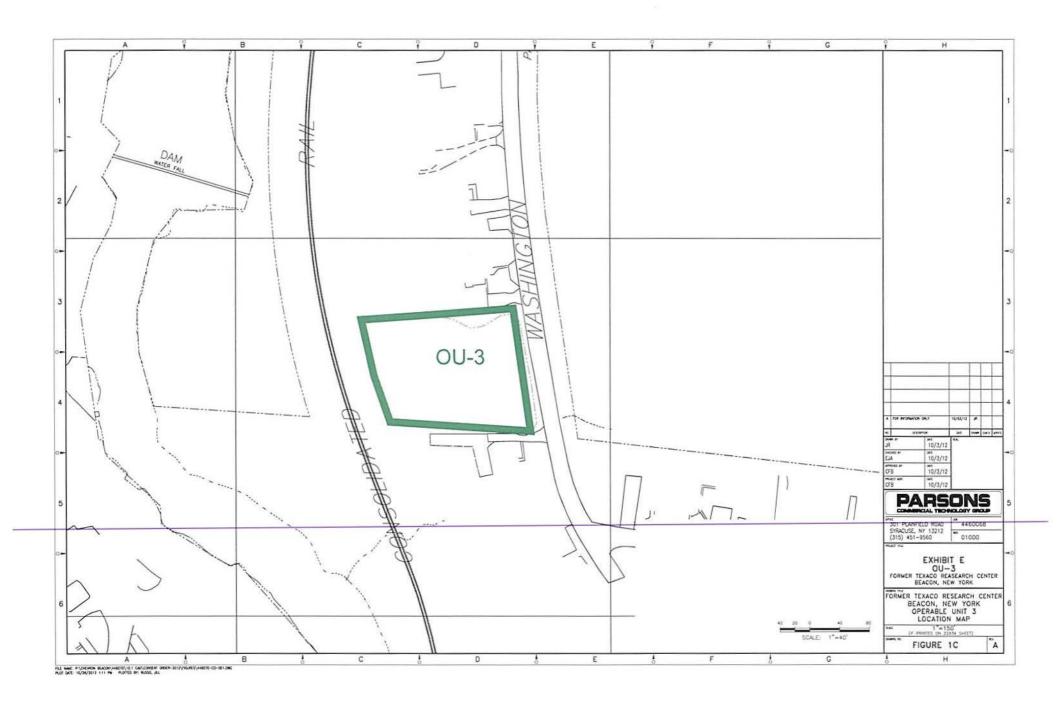


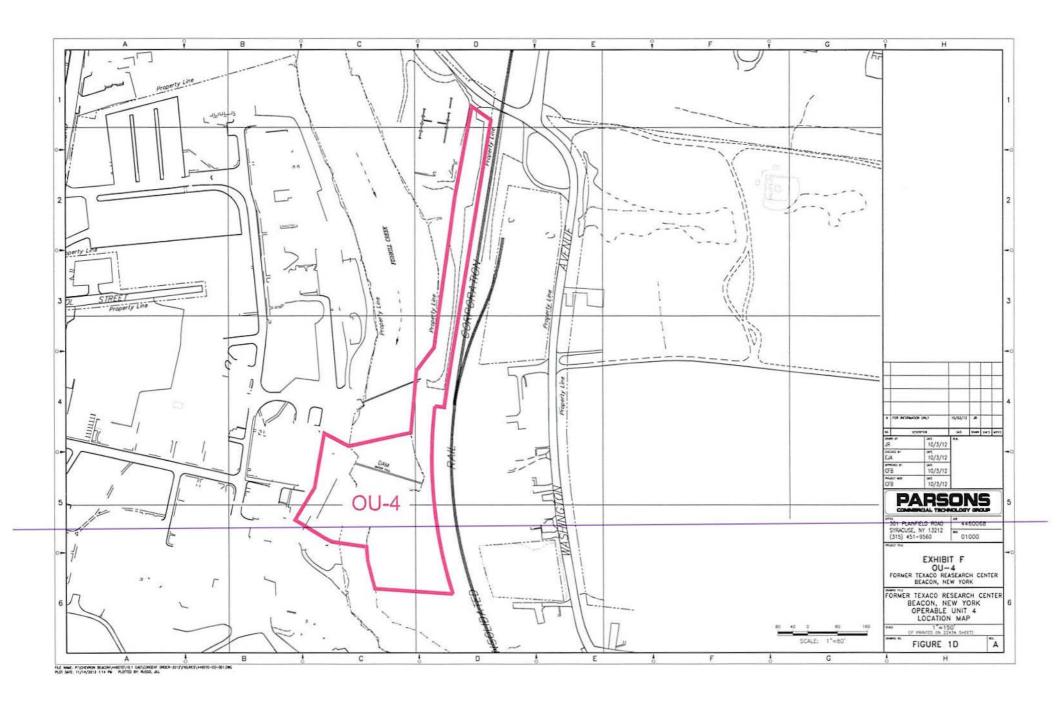
EXHIBIT "A"











New York State Department of Environmental Conservation Office of General Counsel, 14th Floor

625 Broadway, Albany, New York, 12233-1500

Fax: (518) 402-9018 or (518) 402-9019

Website: www.dec.rly.gov



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 of 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 requiting 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.

Not-withstanding 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

cc:

Appendix B

Analytical Data



Locatio Sample I Field Sampl Depth Inte Sample Purp Parameter Name remivolatile Organic Compounds	Date e ID rval	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
,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
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
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
1,5-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
,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
-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
-Dimethylphenol -Dinitrophenol	105-67-9 51-28-5	0.2	20		100	< 0.099 < 1.8	< 0.11 < 1.9	< 0.026 < 0.46	< 0.037 < 0.67	< 0.027 < 0.48	< 0.026 < 0.46	< 0.029 < 0.53	< 0.024 < 0.42	< 0.019 < 0.35	< 0.021 < 0.38	< 0.02 < 0.36
I-Dinitrotoluene	121-14-2					< 0.39	< 0.42	< 0.46	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
S-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
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
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
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
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
Vitroaniline (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
Nitrophenol (o-Nitrophenol) N-Dichlorobenzidine	88-75-5 91-94-1	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
Nitroaniline	99-09-2	0.5	-		-	< 0.59 < 0.39	< 0.64 < 0.42	< 0.15 < 0.1	< 0.22 < 0.15	< 0.16 < 0.11	< 0.15 < 0.1	< 0.18 < 0.12	< 0.14 < 0.094	< 0.12 < 0.077	< 0.13 < 0.084	< 0.12 < 0.079
6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol			_		-	< 0.99	< 1.1	< 0.26	< 0.15	< 0.11	< 0.26	< 0.12	< 0.24	< 0.19	< 0.064	< 0.079
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
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
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
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
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
litrophenol	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
enaphthene	83-32-9 208-96-8	98 107	20	20 100	100 100	< 0.02 0.026 J	0.045 J	0.052 0.088	0.054	0.03 0.098	0.13	0.009 J	0.062 0.063	< 0.004 0.02 J	0.006 J	< 0.004
enaphthylene etophenone	98-86-2	107	-	100	100	< 0.099	0.11 < 0.11	< 0.026	0.73 0.057 J	< 0.027	0.21 0.038 J	0.088 0.042 J	< 0.024	< 0.02 3	0.018 J < 0.021	0.014 J < 0.020
thracene	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
razine	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
enzaldehyde	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
enzo(a)anthracene	56-55-3	1		1	1	0.12	0.36	0.63	<u>1.3</u>	0.34	1	0.13	0.38	0.025	0.14	0.035
enzo(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
enzo(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
nzo(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
enzo(k)fluoranthene s(2-Chloroethoxy)methane	207-08-9 111-91-1	1.7		0.8		0.091 J < 0.099	0.18 < 0.11	0.37 < 0.026	0.8	0.18 < 0.027	0.53 < 0.026	0.1 < 0.029	0.15 < 0.024	0.018 J < 0.019	0.097 < 0.021	0.026 < 0.02
s(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
s(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
s(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
tylbenzylphthalate	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
prolactam	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
rbazole	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
rysene	218-01-9	1	-	1	1	0.18	0.42	0.72	1.2	0.42	<u>1.1</u>	0.29	0.37	0.037	0.14	0.046
n-butylphthalate n-octylphthalate	84-74-2 117-84-0	8.1 120	0.01	-	100 100	< 0.39 < 0.39	< 0.42 < 0.42	< 0.1 < 0.1	< 0.15 < 0.15	< 0.11 < 0.11	< 0.1 < 0.1	< 0.12 < 0.12	< 0.094 < 0.094	< 0.077 < 0.077	< 0.084 < 0.084	< 0.079 < 0.079
n-octylpntnalate penz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	< 0.39 0.023 J	< 0.42 0.07 J	0.11	0.15	0.059	0.16	0.03	0.046	< 0.077	0.084	0.079 0.011 J
penzofuran	132-64-9	6.20	-	7	14	< 0.099	< 0.11	0.043 J	0.053 J	< 0.027	0.10	< 0.029	0.047 J	< 0.019	< 0.021	< 0.02
ethylphthalate	84-66-2	7.1	100	-	100	< 0.39	< 0.42	< 0.1	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
nethyl phthalate	131-11-3	27	200		100	< 0.39	< 0.42	< 0.1	< 0.15	< 0.11	< 0.1	< 0.12	< 0.094	< 0.077	< 0.084	< 0.079
henyl (Biphenyl, Phenyl benzene)	92-52-4		60			< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.020
oranthene	206-44-0	1000	-	100	100	0.24	0.67	1.3	2.1	0.67	2.1	0.34	0.77	0.055	0.21	0.069
orene	86-73-7	386	30	30	100	< 0.02	0.04 J	0.061	0.065	0.032	0.12	0.01 J	0.054	< 0.004	0.009 J	0.005 J
xachlorobenzene	118-74-1	1.4	-	0.33	0.33	< 0.02	< 0.021	< 0.005	< 0.007	< 0.005	< 0.005	< 0.006	< 0.005	< 0.004	< 0.004	< 0.004
kachlorobutadiene	87-68-3 77-47-4		10		-	< 0.099	< 0.11 < 1.1	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
achlorocyclopentadiene achloroethane	67-72-1					< 0.99 < 0.2	< 1.1 < 0.21	< 0.26 < 0.051	< 0.37 < 0.075	< 0.27 < 0.053	< 0.26 < 0.052	< 0.29 < 0.059	< 0.24 < 0.047	< 0.19 < 0.039	< 0.21 < 0.042	< 0.2 < 0.04
eno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.1	0.23	0.39	0.75	0.24	0.6	0.099	0.17	0.016 J	0.092	0.027
phorone	78-59-1	4.4	-		100	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
Nitrosodi-n-propylamine	621-64-7				-	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
Nitrosodiphenylamine (Diphenylamine)	86-30-6	-	20	-	-	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
phthalene	91-20-3	12		12	100	< 0.02	0.04 J	0.053	0.16	0.035	0.18	0.079	0.052	0.007 J	0.013 J	0.005 J
robenzene	98-95-3	0.17	40		3.7	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
Chloro-m-cresol	59-50-7				-	< 0.099	< 0.11	< 0.026	< 0.037	< 0.027	< 0.026	< 0.029	< 0.024	< 0.019	< 0.021	< 0.02
ntachlorophenol	87-86-5	0.8	0.8	0.8	2.4	< 0.2	< 0.21	< 0.051	< 0.075	< 0.053	< 0.052	< 0.059	< 0.047	< 0.039	< 0.042	< 0.04
enanthrene	85-01-8	1000		100	100	0.14	0.44	0.77	0.43	0.37	1.6	0.093	0.68	0.024	0.098	0.045
enol	108-95-2 129-00-0	0.33 1000	30	0.33 100	100 100	< 0.099 0.25	< 0.11 0.69	< 0.026 1.2	< 0.037 1.8	< 0.027 0.63	0.06	< 0.029 0.32	< 0.024 0.71	< 0.019 0.051	< 0.021 0.22	< 0.02 0.076



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Parameter Nam	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Teameter 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									ı	l e e e e e e e e e e e e e e e e e e e	l e e e e e e e e e e e e e e e e e e e		ı			
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 0.19	0.0033	0.0033	1.7 0.019		0.0009 JP									0.0025
Aldrin alpha BHC	309-00-2 319-84-6	0.19	0.14 0.04	0.005 0.02	0.019		< 0.00022			-						< 0.0002 < 0.0002
alpha Chlordane	5103-71-9	2.9	1.30	0.02	0.097		< 0.00022 < 0.00022									< 0.0002
beta BHC	319-85-7	0.09	0.6	0.094	0.91		< 0.00022						-			< 0.0002
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					100		< 0.0022									< 0.002
	72-43-5	900	1.2													
TOXAPHENE	72-43-5 8001-35-2		1.2				< 0.0022									< 0.017
Metals	8001-35-2	900	-				< 0.018									
Metals Aluminum	8001-35-2 7429-90-5	900	10000			15,300	< 0.018	13,500	14,600	21,500	16,200	15,400	14,900	14,300	14,100	13,800
Metals Aluminum Antimony	8001-35-2 7429-90-5 7440-36-0	900	10000 12			15,300 0.224 J	< 0.018 18,800 0.256 J	13,500 0.507	14,600 1.14	21,500 0.877	16,200 0.328 J	15,400 0.242 J	14,900 0.275 J	14,300 0.275 J	14,100 0.295 J	13,800 0.251 J
Metals Aluminum Antimony Arsenic	8001-35-2 7429-90-5 7440-36-0 7440-38-2	900 16	10000 12 13	 13	 16	15,300 0.224 J 7.34	< 0.018 18,800 0.256 J 8.92	13,500 0.507 <u>78.2</u>	14,600 1.14 <u>58.2</u>	21,500 0.877 96.4	16,200 0.328 J <u>28.5</u>	15,400 0.242 J 6.63	14,900 0.275 J <u>45.4</u>	14,300 0.275 J 5.99	14,100 0.295 J 20.6	13,800 0.251 J 13.2
Metals Aluminum Antimony Arsenic Barium	8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3	 16 820	10000 12 13 433	 13 350	 16 350	15,300 0.224 J 7.34 52.6	< 0.018 18,800 0.256 J 8.92 69.9	13,500 0.507 78.2 53.3	14,600 1.14 <u>58.2</u> 100	21,500 0.877 96.4 78.8	16,200 0.328 J <u>28.5</u> 61.1	15,400 0.242 J 6.63 94.5	14,900 0.275 J 45.4 56.4	14,300 0.275 J 5.99 48.3	14,100 0.295 J <u>20.6</u> 48	13,800 0.251 J 13.2 46.9
Metals Aluminum Antimony Arsenic Barium Beryllium	8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7	900 16 820 47	10000 12 13	 13 350 7.2	 16 350 14	15,300 0.224 J 7.34 52.6 0.473	< 0.018 18,800 0.256 J 8.92 69.9 0.597	13,500 0.507 78.2 53.3 0.538	14,600 1.14 <u>58.2</u> 100 0.606	21,500 0.877 96.4 78.8 0.721	16,200 0.328 J 28.5 61.1 0.956	15,400 0.242 J 6.63 94.5 0.621	14,900 0.275 J 45.4 56.4 0.615	14,300 0.275 J 5.99 48.3 0.555	14,100 0.295 J 20.6 48 0.691	13,800 0.251 J 13.2 46.9 0.564
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	900 16 820 47 7.50	10000 12 13 433 10	 13 350 7.2 2.5	 16 350	15,300 0.224 J 7.34 52.6 0.473	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J	13,500 0.507 78.2 53.3 0.538 0.33	14,600 1.14 58.2 100 0.606 0.259 J	21,500 0.877 96.4 78.8 0.721 0.273	16,200 0.328 J 28.5 61.1 0.956 0.433	15,400 0.242 J 6.63 94.5 0.621 0.233 J	14,900 0.275 J 45.4 56.4 0.615 0.456	14,300 0.275 J 5.99 48.3 0.555 0.139 J	14,100 0.295 J 20.6 48 0.691 0.33	13,800 0.251 J 13.2 46.9 0.564 0.254
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	900 16 820 47	10000 12 13 433	 13 350 7.2 2.5	 16 350 14 2.5	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710	13,500 0.507 78.2 53.3 0.538 0.33 47,500	14,600 1.14 <u>58.2</u> 100 0.606	21,500 0.877 96.4 78.8 0.721 0.273 4,590	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060	14,100 0.295 J 20.6 48 0.691 0.33 3,130	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-7-3	900 16 820 47 7.50	10000 12 13 433 10 4 10000	 13 350 7.2 2.5	 16 350 14 2.5 36	15,300 0,224 J 7,34 52.6 0,473 0,144 J 6,810 22.4	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1	13,500 0.507 78.2 53.3 0.538 0.33 47,500	14,600 1.14 <u>58.2</u> 100 0.606 0.259 J 6,630 16	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060	14,100 0.295 J 20.6 48 0.691 0.33 3,130	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	900 16 820 47 7.50	10000 12 13 433 10 4 10000	 13 350 7.2 2.5 30	 16 350 14 2.5	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710	13,500 0.507 78.2 53.3 0.538 0.33 47,500	14,600 1.14 58.2 100 0.606 0.259 J 6,630	21,500 0.877 96.4 78.8 0.721 0.273 4,590	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060	14,100 0.295 J 20.6 48 0.691 0.33 3,130	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	900 16 820 47 7.50	10000 12 13 433 10 4 10000	 13 350 7.2 2.5 30	 16 350 14 2.5 36 30	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	900 16 820 47 7.50 1720	10000 12 13 433 10 4 10000	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-88-4 7440-50-8 7439-89-6	900 16 820 47 7.50 1720	10000 12 13 433 10 4 10000 20 50	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23.900	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	900 16 820 47 7.50 1720 450	10000 12 13 433 10 4 10000 20 50	 13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000 400	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000 65.6	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34 25,400 36.9	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-96-6 7439-92-1 7439-95-4	900 16 820 47 7.50 1720 450	10000 12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000 65.6 9,070	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34 25,400 36.9 5,340	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-96- 7439-95-4 7439-96-5	900 16 820 47 7.50 1720 450 2000	10000 12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210 778	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200 626	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950 784	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000 65.6 9,070 1,130	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700 768	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34 25,400 36.9 5,340 727	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010 613	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730 580	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330 593	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9 4,670 617
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-8-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0	900 16 820 47 7.50 1720 450 2000 130	10000 12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410 722 21.7	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210 778 25.7	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200 626 53.6	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950 784 21.4	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000 65.6 9,070 1,130 33.3	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700 768 32.9	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34 25,400 36.9 5,340 727	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010 613	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730 580 21.2	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330 593	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9 4,670 617 21.6
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-98-6 7439-95-1 7439-96-5 7440-02-0 7440-09-7	900 16 820 47 7.50 1720 450 2000 130	10000 12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 20000 140	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410 722 21.7 1,530	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210 778 25.7 2,130	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200 626 53.6 1,310	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950 784 21.4	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000 65.6 9,070 1,130 33.3 2,110	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700 768 32.9	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34 25,400 36.9 5,340 727 26.2 2,590	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010 613 19.8 1,520	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730 580 21.2	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330 593 19.4 1,670	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9 4,670 617 21.6 1,690
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-95-7 7440-9-7 7782-49-2	900	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410 722 21.7 1,530 0.279 J 0.0598 J 87.3	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210 778 25.7 2,130 0.411 J 0.0682 J 88.3	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200 626 53.6 1,310 0.354 J 0.0691 J	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950 784 21.4 1,510 0.63 J 0.313 J 66.1 J	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000 65.6 9,070 1,130 33.3 2,110 0.489 J	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700 768 32.9 1,970 0.276 J 0.0664 J 64.7 J	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34 25,400 36.9 5,340 727 26.2 2,590 0.242 J	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010 613 19.8 1,520 0.294 J	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730 580 21.2 1,490 0.230 J	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330 593 19.4 1,670 0.229 J 0.0495 J 50.0 J	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9 4,670 617 21.6 1,690 0.220 J 0.0413 J 41.4 J
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-95-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	900 16 820 47 7.50 1720 450 2000 130 4 8.3	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	 13 350 7.2 2.5 30 50 63 1600 30 3.9 2		15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410 722 21.7 1,530 0.279 J 0.0598 J 87.3 0.0992 J	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210 778 25.7 2,130 0.411 J 0.0682 J 88.3 0.165 J	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200 626 53.6 1,310 0.354 J 0.0691 J 125 0.107 J	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950 784 21.4 1,510 0.63 J 0.313 J 66.1 J 0.134 J	21,500 0.877 96.4 78.8 0.721 0.273 4.590 26.3 15.3 45.1 40,000 65.6 9,070 1,130 33.3 2,110 0.489 J 0.0783 J 389 0.124 J	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700 768 32.9 1,970 0.276 J 0.0664 J 64.7 J 0.167 J	15,400 0,242 J 6,63 94.5 0,621 0,233 J 3,330 17.5 12.8 34 25,400 36.9 5,340 727 26.2 2,590 0,242 J 0,246 J 71.5 J 0,109 J	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010 613 19.8 1,520 0.294 J 0.0896 J 49.5 J 0.114 J	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730 580 21.2 1,490 0.230 J 0.0807 J 40.6 J 0.0862 J	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330 593 19.4 1,670 0.229 J 0.0495 J 50.0 J	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9 4,670 617 21.6 1,690 0.220 J 0.0413 J 41.4 J
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-6 7439-95-4 7439-96-5 7440-97 7782-49-2 7440-22-4 7440-23-5 7440-22-0 7440-62-2	900	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5 39	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 400 36 36 36 100	15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410 722 21.7 1,530 0.279 J 0.0598 J 87.3 0.0992 J 22.2	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210 778 25.7 2,130 0.411 J 0.0682 J 88.3 0.165 J 31.2	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200 626 53.6 1,310 0.354 J 0.0691 J 125 0.107 J 237	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950 784 21.4 1,510 0.63 J 0.313 J 66.1 J 0.134 J 27.7	21,500 0.877 96.4 78.8 0.721 0.273 4,590 26.3 15.3 45.1 40,000 65.6 9,070 1,130 33.3 2,110 0.489 J 0.0783 J 389 0.124 J 30.8	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700 768 32.9 1,970 0.276 J 0.0664 J 64.7 J 0.167 J 36	15,400 0.242 J 6.63 94.5 0.621 0.233 J 3,330 17.5 12.8 34 25,400 36.9 5,340 727 26.2 2,590 0.242 J 0.246 J 71.5 J 0.109 J 21.5	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010 613 19.8 1,520 0.294 J 0.0896 J 49.5 J 0.114 J 26.6	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730 580 21.2 1,490 0.230 J 0.0807 J 40.6 J 0.0862 J 23	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330 593 19.4 1,670 0.229 J 0.0495 J 50.0 J 0.0901 J 22.8	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9 4,670 617 21.6 1,690 0.220 J 0.0413 J 41.4 J 0.0830 J 23.2
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-95-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	900	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	13 350 7.2 2.5 30 50 1600 30 1, -		15,300 0.224 J 7.34 52.6 0.473 0.144 J 6,810 22.4 10 26 27,000 25.8 7,410 722 21.7 1,530 0.279 J 0.0598 J 87.3 0.0992 J	< 0.018 18,800 0.256 J 8.92 69.9 0.597 0.164 J 4,710 26.1 11.6 30.2 31,400 42.8 7,210 778 25.7 2,130 0.411 J 0.0682 J 88.3 0.165 J	13,500 0.507 78.2 53.3 0.538 0.33 47,500 17.3 9.44 29.6 25,200 80.9 35,200 626 53.6 1,310 0.354 J 0.0691 J 125 0.107 J	14,600 1.14 58.2 100 0.606 0.259 J 6,630 16 9.48 39.8 26,100 86.7 4,950 784 21.4 1,510 0.63 J 0.313 J 66.1 J 0.134 J	21,500 0.877 96.4 78.8 0.721 0.273 4.590 26.3 15.3 45.1 40,000 65.6 9,070 1,130 33.3 2,110 0.489 J 0.0783 J 389 0.124 J	16,200 0.328 J 28.5 61.1 0.956 0.433 13,300 54.6 12.6 24.1 34,000 63.1 15,700 768 32.9 1,970 0.276 J 0.0664 J 64.7 J 0.167 J	15,400 0,242 J 6,63 94.5 0,621 0,233 J 3,330 17.5 12.8 34 25,400 36.9 5,340 727 26.2 2,590 0,242 J 0,246 J 71.5 J 0,109 J	14,900 0.275 J 45.4 56.4 0.615 0.456 4,500 15.9 9.41 51.6 22,600 65.1 6,010 613 19.8 1,520 0.294 J 0.0896 J 49.5 J 0.114 J	14,300 0.275 J 5.99 48.3 0.555 0.139 J 1,060 15 10.1 24.3 24,100 17.9 4,730 580 21.2 1,490 0.230 J 0.0807 J 40.6 J 0.0862 J	14,100 0.295 J 20.6 48 0.691 0.33 3,130 14.9 9.84 23.4 23,900 31.7 5,330 593 19.4 1,670 0.229 J 0.0495 J 50.0 J	13,800 0.251 J 13.2 46.9 0.564 0.254 1,680 14.8 10.2 23.8 24,100 21.9 4,670 617 21.6 1,690 0.220 J 0.0413 J 41.4 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.

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			Unrestricted Use Soil	375-6.8(b) &	OU1DSB01 5/18/2017 OU1DSB01-S-0.17- 170518 0.17-0.5	OU1DSB01 5/18/2017 OU1DSB01-S-0.50- 170518 0.5-1	OU1DSB01 5/18/2017 OU1DSB01-S-1.00- 170518 1-2	OU1DSB02 5/18/2017 OU1DSB02-S-0.17- 170518 0.17-0.5	OU1DSB02 5/18/2017 OU1DSB02-S-0.50- 170518 0.5-1	OU1DSB02 5/18/2017 OU1DSB02-S-1.00- 170518 1-2	OU1DSB02 5/18/2017 OU1DSB02-SD-1.00- 170518 1-2	OU1DSB03 5/19/2017 OU1DSB03-S-0.17- 170519 0.17-0.5	OU1DSB03 5/19/2017 OU1DSB03-S-0.50- 170519 0.5-1	OU1DSB03 5/19/2017 OU1DSB03-S-1.00- 170519 1-2	OU1DSB04 5/19/2017 OU1DSB04-S-0.17- 170519 0.17-0.5	OU1DSB04 5/19/2017 OU1DSB04-S-0.50- 170519 0.5-1
	Sample Purpose	Parameter	375-6.8(b) &	Cleanup	CP-51	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter National Parameter Nat	ame	Code	CP-51 POG	Objectives	Residential			<u> </u>									<u> </u>
Volatile Organic Compounds 1,1 Dichloroethene	S .	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 (76-13-1	6	-	100				-				< 0.001	< 0.001	< 0.076		-
1,1-Dichloroethane		75-34-3	0.27	0.27	19								< 0.002	< 0.003	< 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		96-12-8													< 0.076		
1,2-Dibromoethane		106-93-4	-										< 0.001	< 0.001	< 0.076		
1,2-Dichlorobenzene (o-Dichlo		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	< 0.007	< 0.076		-
1,2-Dichloropropane		78-87-5	0.02	0.02	2.3								< 0.001	< 0.001	< 0.076		
1,3-Dichlorobenzene		541-73-1	2.4	2.4	17								< 0.001	< 0.001	< 0.076		-
1,4-Dichlorobenzene		106-46-7	1.8	1.8	9.8									0.003 J	< 0.076		
2-Butanone (Methyl ethyl ketor		78-93-3	0.3	0.12	100	 							0.008 J	0.003 J 0.011 J	< 0.076		-
2-Hexanone		591-78-6		0.12									< 0.004	< 0.004	< 0.23		
		108-10-1	1										< 0.004	< 0.004	< 0.23		
4-Methyl-2-pentanone Acetone		67-64-1	0.05	0.05	100										< 0.53		
		71-43-2	0.06	0.05	2.9								0.11 0.002 J	<u>0.11</u> 0.003 J	< 0.038		
Benzene		71-43-2 74-97-5							-								
Bromochloromethane		75-27-4	-	-	-			-					< 0.001	< 0.001	< 0.076		
Bromodichloromethane			-	-	-			-					< 0.001	< 0.001	< 0.076		
Bromoform		75-25-2	-	-	-			-					< 0.001	< 0.001	< 0.076		
Bromomethane (Methyl bromid		74-83-9		-	400			-					< 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 chlorid	-	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 (Freo		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 (Dichlorom		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 (Trichloroethyl		79-01-6	0.47	0.47	10								< 0.001	< 0.001	< 0.076		
Trichlorofluoromethane (Freon		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				OU1DSB01 5/18/2017	OU1DSB01 5/18/2017	OU1DSB01 5/18/2017	OU1DSB02 5/18/2017	OU1DSB02 5/18/2017	OU1DSB02 5/18/2017	OU1DSB02 5/18/2017	OU1DSB03 5/19/2017	OU1DSB03 5/19/2017	OU1DSB03 5/19/2017	OU1DSB04 5/19/2017	OU1DSB04 5/19/2017
	eld Sample ID Depth Interval		Unrestricted Use Soil	375-6.8(b) &	OU1DSB01-S-0.17- 170518 0.17-0.5	OU1DSB01-S-0.50- 170518 0.5-1	OU1DSB01-S-1.00- 170518 1-2	OU1DSB02-S-0.17- 170518 0.17-0.5	OU1DSB02-S-0.50- 170518 0.5-1	OU1DSB02-S-1.00- 170518 1-2	OU1DSB02-SD-1.00- 170518 1-2	OU1DSB03-S-0.17- 170519 0.17-0.5	OU1DSB03-S-0.50- 170519 0.5-1	OU1DSB03-S-1.00- 170519 1-2	OU1DSB04-S-0.17- 170519 0.17-0.5	OU1DSB04-S-0.50- 170519 0.5-1
	nple Purpose Parameter	375-6.8(b) &	Cleanup	CP-51	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter Name mivolatile Organic Compounds	Code	CP-51 POG	Objectives	Residential		<u> </u>	<u> </u>		<u> </u>		<u> </u>					
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-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
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
,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
,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
-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
-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
I-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
-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
-Dinitrotoluene	606-20-2 91-58-7	0.17	-	1.03	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018 < 0.007	< 0.019	< 0.022	< 0.02	< 0.021 < 0.008	< 0.026 < 0.01	< 0.019
Chloronaphthalene	91-58-7 95-57-8		-	100	< 0.041 < 0.1	< 0.008 < 0.019	< 0.007 < 0.019	< 0.008 < 0.02	< 0.008 < 0.019	< 0.007 < 0.018	< 0.007 < 0.019	< 0.009 < 0.022	< 0.008 < 0.02	< 0.008 < 0.021	< 0.01	< 0.007 < 0.019
Chlorophenol (o-Chlorophenol) 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	0.022	0.045	3.3	0.026	0.15
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
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
litrophenol (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
-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
troaniline	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
Dinitro-2-methylphenol (4,6-Din	tro-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
romophenylphenylether	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
hloroaniline	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
hlorophenyl 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
lethylphenol (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
troaniline	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
trophenol	100-02-7	0.1 98	20	100	< 1 < 0.021	< 0.19 0.009 J	< 0.19	< 0.2 0.022	< 0.19	< 0.18	< 0.19 0.024	< 0.22	< 0.2 0.025	< 0.21	< 0.26 0.073	< 0.19 0.054
naphthene naphthylene	83-32-9 208-96-8	107	100	100	0.021 J	0.009 3	< 0.004 0.011 J	0.022	0.025 0.15	0.016 J 0.13	0.024	0.074 0.16	0.025	0.58 2.6	0.073	1.1
tophenone	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
nracene	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
azine	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
zaldehyde	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
nzo(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	<u>3</u>	<u>2.3</u>	<u>2.1</u>
nzo(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
nzo(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	<u>2</u>	<u>3.5</u>	<u>3.3</u>
nzo(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
nzo(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
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
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
2-chloroisopropyl) ether 2-Ethylhexyl)phthalate	108-60-1 117-81-7	435	-	50	< 0.1 < 0.41	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
ylbenzylphthalate	85-68-7	122	-	100	< 0.41	< 0.075 < 0.075	< 0.075 < 0.075	< 0.081 < 0.081	< 0.075 < 0.075	< 0.073 < 0.073	< 0.075 < 0.075	< 0.087 < 0.087	< 0.081 < 0.081	< 0.083 < 0.083	< 0.1 < 0.1	< 0.075 < 0.075
prolactam	105-60-2		_		< 0.41	< 0.038	< 0.037	< 0.04	< 0.038	< 0.073	< 0.075	< 0.043	< 0.04	< 0.042	< 0.051	< 0.075
bazole	86-74-8	-		-	< 0.1	< 0.019	< 0.019	0.03 J	0.038 J	0.026 J	0.019 J	0.1	0.045	0.17	0.19	0.15
ysene	218-01-9	1	1	1	0.12	0.12	0.037	0.3	0.48	0.41	0.48	1	0.51	3.3	<u>2.3</u>	2.2
n-butylphthalate	84-74-2	8.1	-	100	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
n-octylphthalate	117-84-0	120		100	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
enz(a,h)anthracene	53-70-3	1000	0.33	0.33	< 0.021	0.019	0.008 J	0.048	0.077	0.059	0.067	0.19	0.096	0.37	0.38	0.4
enzofuran	132-64-9	6.20	7	14	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	0.038 J	0.021 J	0.29	0.052	0.048
nylphthalate	84-66-2	7.1	-	100	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
ethyl phthalate	131-11-3	27	-	100	< 0.41	< 0.075	< 0.075	< 0.081	< 0.075	< 0.073	< 0.075	< 0.087	< 0.081	< 0.083	< 0.1	< 0.075
enyl (Biphenyl, Phenyl benzen					< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	0.29	0.026 J	0.022 J
ranthene	206-44-0	1000	100	100	0.17	0.19	0.053	0.43	0.69	0.55	0.56	1.6	0.71	4.6	3.9	3.2
rene	86-73-7	386	30	100	< 0.021	0.01 J	0.004 J	0.028	0.041	0.032	0.077	0.073	0.042	2.3	0.1	0.079
chlorobenzene chlorobutadiene	118-74-1 87-68-3	1.4	0.33	0.33	< 0.021	< 0.004 < 0.019	< 0.004 < 0.019	< 0.004 < 0.02	< 0.004	< 0.004 < 0.018	< 0.004 < 0.019	< 0.004 < 0.022	< 0.004 < 0.02	< 0.004	< 0.005 < 0.026	< 0.004 < 0.019
achlorocyclopentadiene	87-68-3 77-47-4	-	_	-	< 0.1 < 1	< 0.019	< 0.019	< 0.02	< 0.019 < 0.19	< 0.018	< 0.019	< 0.022 < 0.22	< 0.02	< 0.021 < 0.21	< 0.026	< 0.019
chloroethane	67-72-1	-		-	< 0.21	< 0.19	< 0.19	< 0.2	< 0.038	< 0.18	< 0.19	< 0.22	< 0.2	< 0.21	< 0.26	< 0.19
o(1,2,3-cd)Pyrene	193-39-5	8.2	0.5	0.5	0.08 J	0.069	0.025	0.17	0.28	0.23	0.23	0.67	0.32	1.1	1.2	1.3
horone	78-59-1	4.4		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
trosodi-n-propylamine	621-64-7	-	-	-	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
rosodiphenylamine (Diphenyla					< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
hthalene	91-20-3	12	12	100	0.029 J	0.018 J	0.011 J	0.023	0.027	0.022	0.041	0.053	0.062	2	0.17	0.13
benzene	98-95-3	0.17	-	3.7	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
hloro-m-cresol	59-50-7	-	-	-	< 0.1	< 0.019	< 0.019	< 0.02	< 0.019	< 0.018	< 0.019	< 0.022	< 0.02	< 0.021	< 0.026	< 0.019
tachlorophenol	87-86-5	0.8	0.8	2.4	< 0.21	< 0.038	< 0.037	< 0.04	< 0.038	< 0.037	< 0.037	< 0.043	< 0.04	< 0.042	< 0.051	< 0.037
nanthrene	85-01-8	1000	100	100	0.09 J	0.12	0.036	0.26	0.43	0.37	0.52	0.79	0.38	10	0.78	0.46
enol	108-95-2	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
ene	129-00-0	1000	100	100	0.17	0.19	0.057	0.48	0.83	0.7	0.83	1.5	0.73	8.1	3.5	3



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	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
Parameter Nam		CP-51 POG	Objectives	Residential												
Polychlorinated Biphenyls					0											
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 Aroclor 1268	37324-23-5		-					< 0.004 < 0.004	< 0.0038	< 0.0036 < 0.0036	< 0.0037 < 0.0037					
Pesticides	11100-14-4	-					-	< 0.004	< 0.0038	< 0.0036	< 0.0037					
4,4-DDD	72-54-8	14	0.0033	2.6			-	< 0.0036 V	< 0.00038	< 0.00036	< 0.00037					
4,4-DDE	72-54-6	17	0.0033	1.8				0.003	0.003	0.0021	0.0021					
4,4-DDT	50-29-3	136	0.0033	1.7				0.003	0.003	0.0021	0.0021					
Aldrin	309-00-2	0.19	0.005	0.019				< 0.0002	< 0.00019	< 0.0019	< 0.0019					
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 METHOXYCHLOR	1024-57-3	0.02	-	0.077			-	< 0.0002	0.00046 JP	< 0.00019	< 0.00019					-
TOXAPHENE	72-43-5 8001-35-2	900		100				< 0.002	< 0.0029	< 0.002 V	< 0.0019					
Metals	8001-33-2	-	-				-	< 0.017	< 0.016	< 0.015	< 0.016					
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	<u>85.2</u>	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
			-		7,370	6,390	6,020	7,700	8,850	7,460	9,120	38,100	30,000	14,600	5,740	5,930
Magnesium	7439-95-4					742	698	1,050	749	1,050	795	603	486	654	606	733
Manganese	7439-96-5	2000	1600	2000	790			4						25.0		24.9
Manganese Nickel	7439-96-5 7440-02-0	2000 130	30	140	21.5	23.8	25.3	28.7	26.4	29.6	28.5	62.1	41	25.2	24.7	
Manganese Nickel Potassium	7439-96-5 7440-02-0 7440-09-7	2000 130 	30	140	21.5 1,510	23.8 1,550	25.3 1,810	1,850	1,570	2,010	1,980	1,550	1,080	1,400	1,250	1,130
Manganese Nickel Potassium Selenium	7439-96-5 7440-02-0 7440-09-7 7782-49-2	2000 130 4	30 3.9	140 36	21.5 1,510 0.351 J	23.8 1,550 0.333 J	25.3 1,810 0.348 J	1,850 0.38 J	1,570 0.364 J	2,010 0.338 J	1,980 0.321 J	1,550 0.322 J	1,080 0.437 J	1,400 0.265 J	1,250 0.537 J	0.415 J
Manganese Nickel Potassium Selenium Silver	7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	2000 130 4 8.3	30 3.9 2	140 36 36	21.5 1,510 0.351 J 0.0592 J	23.8 1,550 0.333 J 0.0641 J	25.3 1,810 0.348 J 0.0497 J	1,850 0.38 J 0.0577 J	1,570 0.364 J 0.0634 J	2,010 0.338 J 0.0498 J	1,980 0.321 J 0.042 J	1,550 0.322 J 0.122 J	1,080 0.437 J 0.13 J	1,400 0.265 J 0.0458 J	1,250 0.537 J 0.364	0.415 J 0.388
Manganese Nickel Potassium Selenium Silver Sodium	7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	2000 130 4 8.3	30 3.9 2 	140 36 36 	21.5 1,510 0.351 J 0.0592 J 87.7	23.8 1,550 0.333 J 0.0641 J 78 J	25.3 1,810 0.348 J 0.0497 J 89	1,850 0.38 J 0.0577 J 74.4 J	1,570 0.364 J 0.0634 J 78.6 J	2,010 0.338 J 0.0498 J 82.4 J	1,980 0.321 J 0.042 J 83.1 J	1,550 0.322 J 0.122 J 132	1,080 0.437 J 0.13 J 123	1,400 0.265 J 0.0458 J 81	1,250 0.537 J 0.364 53.1 J	0.415 J 0.388 41.4 J
Manganese Nickel Potassium Selenium Silver Sodium Thallium	7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	2000 130 4 8.3 	30 3.9 2 	140 36 36 	21.5 1,510 0.351 J 0.0592 J 87.7 0.139 J	23.8 1,550 0.333 J 0.0641 J 78 J 0.152 J	25.3 1,810 0.348 J 0.0497 J 89 0.126 J	1,850 0.38 J 0.0577 J 74.4 J 0.0953 J	1,570 0.364 J 0.0634 J 78.6 J 0.0995 J	2,010 0.338 J 0.0498 J 82.4 J 0.127 J	1,980 0.321 J 0.042 J 83.1 J 0.156 J	1,550 0.322 J 0.122 J 132 0.103 J	1,080 0.437 J 0.13 J 123 0.0675 J	1,400 0.265 J 0.0458 J 81 0.0733 J	1,250 0.537 J 0.364 53.1 J 0.125 J	0.415 J 0.388 41.4 J 0.117 J
Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	2000 130 4 8.3 	30 3.9 2 	140 36 36 100	21.5 1,510 0.351 J 0.0592 J 87.7 0.139 J 24.8	23.8 1,550 0.333 J 0.0641 J 78 J 0.152 J 25.5	25.3 1,810 0.348 J 0.0497 J 89 0.126 J 26	1,850 0.38 J 0.0577 J 74.4 J 0.0953 J 29.8	1,570 0.364 J 0.0634 J 78.6 J 0.0995 J 27	2,010 0.338 J 0.0498 J 82.4 J 0.127 J 26.4	1,980 0.321 J 0.042 J 83.1 J 0.156 J 27.8	1,550 0.322 J 0.122 J 132 0.103 J 297	1,080 0.437 J 0.13 J 123 0.0675 J 508	1,400 0.265 J 0.0458 J 81 0.0733 J 157	1,250 0.537 J 0.364 53.1 J 0.125 J 27.7	0.415 J 0.388 41.4 J 0.117 J 27.6
Manganese Nickel Potassium Selenium Silver Sodium Thallium	7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	2000 130 4 8.3 	30 3.9 2 	140 36 36 	21.5 1,510 0.351 J 0.0592 J 87.7 0.139 J	23.8 1,550 0.333 J 0.0641 J 78 J 0.152 J	25.3 1,810 0.348 J 0.0497 J 89 0.126 J	1,850 0.38 J 0.0577 J 74.4 J 0.0953 J	1,570 0.364 J 0.0634 J 78.6 J 0.0995 J	2,010 0.338 J 0.0498 J 82.4 J 0.127 J	1,980 0.321 J 0.042 J 83.1 J 0.156 J	1,550 0.322 J 0.122 J 132 0.103 J	1,080 0.437 J 0.13 J 123 0.0675 J	1,400 0.265 J 0.0458 J 81 0.0733 J	1,250 0.537 J 0.364 53.1 J 0.125 J	0.415 J 0.388 41.4 J 0.117 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

evident interference.
Underline: Exceeds POG SCO
Bold: Exceeds Unrestricted SCO
Highlighted Blue: Exceeds Residential SCO



	Location ID Sample Date Field Sample ID Depth Interval	Parameter	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	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
Parameter Nam	Sample Purpose	Code	CP-51 POG	Objectives	Residential	KEG	REG	REG	REG	REG	REG	REG	REG	REG	REG	100	REG
olatile Organic Compounds																	
,1 Dichloroethene		75-35-4	0.33	0.33	100								< 0.001	< 0.0009	< 0.0008	< 0.001	
,1,1-Trichloroethane	7	71-55-6	0.68	0.68	100								< 0.001	< 0.0009	< 0.0008	< 0.001	
,1,2,2-Tetrachloroethane		79-34-5	0.6	-	35								< 0.001	< 0.0009	< 0.0008	< 0.001	
,1,2-Trichloroethane		79-00-5	-	-									< 0.001	< 0.0009	< 0.0008	< 0.001	
,1,2-Trichlorotrifluoroethane (Fi	reon 113) 7	76-13-1	6		100								< 0.002	< 0.002	< 0.002	< 0.002	
,1-Dichloroethane		75-34-3	0.27	0.27	19								< 0.001	< 0.0009	< 0.0008	< 0.001	
,2,3-Trichlorobenzene	8	37-61-6	-		-								< 0.001	< 0.0009	< 0.0008	< 0.001	
,2,4-Trichlorobenzene	1	120-82-1	3.4	-	-								< 0.001	< 0.0009	< 0.0008	< 0.001	
,2-Dibromo-3-chloropropane (D	DBCP) 9	96-12-8	-	-									< 0.002	< 0.002	< 0.002	< 0.002	
,2-Dibromoethane	1	106-93-4	-	-									< 0.001	< 0.0009	< 0.0008	< 0.001	
,2-Dichlorobenzene (o-Dichloro	obenzene) 9	95-50-1	1.1	1.1	100								< 0.001	< 0.0009	< 0.0008	< 0.001	
,2-Dichloroethane	1	107-06-2	0.02	0.02	2.3								< 0.001	< 0.0009	< 0.0008	< 0.001	
,2-Dichloropropane	7	78-87-5		-									< 0.001	< 0.0009	< 0.0008	< 0.001	
,3-Dichlorobenzene	5	541-73-1	2.4	2.4	17								< 0.001	< 0.0009	< 0.0008	< 0.001	
,4-Dichlorobenzene	1	106-46-7	1.8	1.8	9.8								< 0.001	< 0.0009	< 0.0008	< 0.001	
-Butanone (Methyl ethyl ketone	e) 7	78-93-3	0.3	0.12	100								< 0.004	0.004 J	0.004 J	0.005 J	
-Hexanone	5	591-78-6	-	-									< 0.003	< 0.003	< 0.003	< 0.003	
-Methyl-2-pentanone	1	108-10-1	1	-	-	-							< 0.003	< 0.003	< 0.003	< 0.003	
cetone		67-64-1	0.05	0.05	100								0.05	0.057	0.045	0.062	
Senzene		71-43-2	0.06	0.06	2.9								< 0.0005	< 0.0004	< 0.0004	< 0.0005	
romochloromethane		74-97-5	-	-									< 0.001	< 0.0009	< 0.0008	< 0.001	
Fromodichloromethane		75-27-4	-										< 0.001	< 0.0009	< 0.0008	< 0.001	
Bromoform		75-25-2			-	-							< 0.001	< 0.0009	< 0.0008	< 0.001	
Fromomethane (Methyl bromide		74-83-9		_								-	< 0.002	< 0.002	< 0.002	< 0.002	-
Carbon disulfide		75-15-0	2.7		100								< 0.002	< 0.002	< 0.002	< 0.002	
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		10	-							< 0.002	< 0.002	< 0.002	< 0.002	
Chloroform		37-66-3	0.37	0.37		-						-	< 0.001	< 0.0009	< 0.0008	< 0.001	-
Chloromethane (Methyl chloride)		74-87-3				-						-	< 0.002	< 0.002	< 0.002	< 0.002	-
is-1,2-Dichloroethene		156-59-2	0.25	0.25	59	-							< 0.001	< 0.0009	< 0.0008	< 0.001	
is-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	-
ichlorodifluoromethane (Freon		75-71-8	-	-	-								< 0.002	< 0.002	< 0.002	< 0.002	-
iisopropyl ether		108-20-3	-	-	-								< 0.001	< 0.0009	< 0.0008	< 0.001	
thyl-t-butylether	6	37-92-3	-	-	-	-							< 0.001	< 0.0009	< 0.0008	< 0.001	
thylbenzene	1	100-41-4	1	1	30								< 0.001	< 0.0009	< 0.0008	< 0.001	
sopropylbenzene	9	98-82-8	2.3		100								< 0.001	< 0.0009	< 0.0008	< 0.001	
n,p-Xylenes)	(YLENES-MP											< 0.001	< 0.0009	< 0.0008	< 0.001	
Methyl acetate	7	79-20-9											< 0.002	< 0.002	< 0.002	< 0.002	
Methyl-t-butyl ether	1	1634-04-4	0.93	0.93	62								< 0.0005	< 0.0004	< 0.0004	< 0.0005	
Methylcyclohexane	1	108-87-2	-										< 0.001	< 0.0009	< 0.0008	< 0.001	
Methylene chloride (Dichloromet	thane) 7	75-09-2	0.05	0.05	51								< 0.002	< 0.002	< 0.002	< 0.002	
-Xylene	9	95-47-6	-										< 0.001	< 0.0009	< 0.0008	< 0.001	
tyrene	1	100-42-5	-		-	-							< 0.001	< 0.0009	< 0.0008	< 0.001	
ert-Amyl methyl ether		994-05-8	-	-	-								< 0.001	< 0.0009	< 0.0008	< 0.001	
ertiary Butyl Alcohol		75-65-0	-		-								< 0.021	< 0.018	< 0.017	< 0.02	
etrachloroethene		127-18-4	1.3	1.3	5.5								< 0.001	< 0.0009	< 0.0008	< 0.001	
oluene		108-88-3	0.7	0.7	100								< 0.001	< 0.0009	< 0.0008	< 0.001	
rans-1,2-Dichloroethene		156-60-5	0.19	0.7	100								< 0.001	< 0.0009	< 0.0008	< 0.001	
ans-1,3-Dichloropropene			0.19	0.19													
		10061-02-6			10								< 0.001	< 0.0009	< 0.0008	< 0.001	
richloroethene (Trichloroethyle		79-01-6	0.47	0.47									< 0.001	< 0.0009	< 0.0008	< 0.001	
richlorofluoromethane (Freon 1		75-69-4				-							< 0.002	< 0.002	< 0.002	< 0.002	
'inyl chloride (Chloroethene)		75-01-4 1330-20-7	0.02 1.60	0.02 0.26	0.21 100								< 0.001 < 0.001	< 0.0009 < 0.0009	< 0.0008 < 0.0008	< 0.001 < 0.001	



	Location ID Sample Date				OU1DSB04 5/19/2017 OU1DSB04-S-1.00-	OU1DSB05 5/19/2017 OU1DSB05-S-0.17-	OU1DSB05 5/19/2017 OU1DSB05-S-0.50-	OU1DSB05 5/19/2017 OU1DSB05-S-1.00-	OU1DSB06 5/19/2017 OU1DSB06-S-0.17-	OU1DSB06 5/19/2017 OU1DSB06-S-0.50-	OU1DSB06 5/19/2017 OU1DSB06-S-1.00-	OU1DSB07 5/22/2017 OU1DSB07-S-0.17-	OU1DSB07 5/22/2017 OU1DSB07-S-0.50-	OU1DSB07 5/22/2017 OU1DSB07-S-1.00-	OU1DSB07 5/22/2017 OU1DSB07-SD-0.50-	OU1DSB08 5/22/2017 OU1DSB08-S-0.17-
	ield Sample ID Depth Interval mple Purpose Parameter	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	170519 1-2 REG	170519 0.17-0.5 REG	170519 0.5-1 REG	170519 1-2 REG	170519 0.17-0.5 REG	170519 0.5-1 REG	170519 1-2 REG	170522 0.17-0.5 REG	170522 0.5-1 REG	170522 1-2 REG	170522 0.5-1 FD	170522 0.17-0.5 REG
Parameter Name	Code	CP-51 POG	Objectives	Residential	REG	KEO	NEO .	KEO	KEO	KEG	KEO	KEG	KLO	NEO .	, ,	KEO
emivolatile Organic Compound	5	<u> </u>				•										
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
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
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
1,5-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
1,6-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
1-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
I-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
I-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
l-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
3-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
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
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
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
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
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
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
'-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
litroaniline	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
-Dinitro-2-methylphenol (4,6-Dir		-	-	-	< 0.19	< 0.22	< 0.18	< 0.21	< 0.2	< 0.22	< 0.23	< 0.2	< 0.18	< 0.18	< 0.18	< 0.22
romophenylphenylether	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
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
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
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
litroaniline	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
itrophenol	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
enaphthene	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
enaphthylene	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
etophenone	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
hracene	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
azine	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
nzaldehyde	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
nzo(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
nzo(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
nzo(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
nzo(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
nzo(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
(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
(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
(2-chloroisopropyl) ether	108-60-1	-	-		< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
(2-Ethylhexyl)phthalate	117-81-7	435	-	50	< 0.075	< 0.086	< 0.072	0.14 J	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
tylbenzylphthalate	85-68-7	122	-	100	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
prolactam	105-60-2	-	-		< 0.037	< 0.043	< 0.036	< 0.043	< 0.039	< 0.043	< 0.047	< 0.039	< 0.036	< 0.037	< 0.037	< 0.043
rbazole	86-74-8				0.041	0.069	0.019 J	0.056	0.18	0.11	0.074	0.027 J	< 0.018	< 0.018	< 0.018	0.041 J
rysene	218-01-9	1	1	1	0.53	0.55	0.14	0.29	0.99	0.72	0.38	0.081	0.013 J	< 0.004	0.015 J	0.25
n-butylphthalate	84-74-2	8.1		100	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
n-octylphthalate	117-84-0	120	-	100	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
enz(a,h)anthracene	53-70-3	1000	0.33	0.33	0.1	0.068	0.021	0.041	0.15	0.11	0.052	0.007 J	< 0.004	< 0.004	< 0.004	0.038
enzofuran	132-64-9	6.20	7	14	0.023 J	0.056	< 0.018	0.033 J	0.13	0.067	0.061	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
thylphthalate	84-66-2	7.1	-	100	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
ethyl phthalate	131-11-3	27	-	100	< 0.075	< 0.086	< 0.072	< 0.085	< 0.079	< 0.086	< 0.094	< 0.079	< 0.072	< 0.074	< 0.073	< 0.086
henyl (Biphenyl, Phenyl benzen		-	-		< 0.019	< 0.022	< 0.018	< 0.021	0.023 J	< 0.022	< 0.023	< 0.020	< 0.018	< 0.018	< 0.018	< 0.022
oranthene	206-44-0	1000	100	100	0.67	1	0.26	0.52	2	1.4	0.8	0.1	0.011 J	< 0.004	0.016 J	0.42
orene	86-73-7	386	30	100	0.021	0.08	0.012 J	0.043	0.13	0.087	0.075	< 0.004	< 0.004	< 0.004	< 0.004	0.025
achlorobenzene	118-74-1	1.4	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
achlorobutadiene	87-68-3				< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
achlorocyclopentadiene	77-47-4				< 0.19	< 0.22	< 0.18	< 0.21	< 0.2	< 0.22	< 0.23	< 0.2	< 0.18	< 0.18	< 0.18	< 0.22
achloroethane	67-72-1				< 0.037	< 0.043	< 0.036	< 0.043	< 0.039	< 0.043	< 0.047	< 0.039	< 0.036	< 0.037	< 0.037	< 0.043
no(1,2,3-cd)Pyrene	193-39-5	8.2	0.5	0.5	0.34	0.26	0.074	0.16	0.53	0.45	0.19	0.029	0.007 J	< 0.004	0.007 J	0.13
norone	78-59-1	4.4	-	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
trosodi-n-propylamine	621-64-7	-	-		< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
trosodiphenylamine (Diphenyla	amine) 86-30-6	-	-	-	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
hthalene	91-20-3	12	12	100	0.16	0.058	0.011 J	0.063	0.17	0.12	0.1	0.015 J	0.008 J	0.005 J	0.007 J	0.032
benzene	98-95-3	0.17	-	3.7	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
nloro-m-cresol	59-50-7	-	-	-	< 0.019	< 0.022	< 0.018	< 0.021	< 0.02	< 0.022	< 0.023	< 0.02	< 0.018	< 0.018	< 0.018	< 0.022
tachlorophenol	87-86-5	0.8	0.8	2.4	< 0.037	< 0.043	< 0.036	< 0.043	< 0.039	< 0.043	< 0.047	< 0.039	< 0.036	< 0.037	< 0.037	< 0.043
enanthrene	85-01-8	1000	100	100	0.15	0.9	0.16	0.43	1.7	1.1	0.74	0.027	0.007 J	< 0.004	0.008 J	0.27
enol	108-95-2	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
ene	129-00-0	1000	100	100	0.71	1	0.25	0.51	1.9	1.4	0.77	0.095	0.012 J	< 0.004	0.016 J	0.42



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	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
Parameter Nam		CP-51 POG	Objectives	Residential	- KEO		THE THE		- NEO	- KEO			- NEO			, KEO
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	70.54.0	44	0.0022	2.0												
4,4-DDD	72-54-8	14	0.0033	2.6												
4,4-DDE 4,4-DDT	72-55-9 50-29-3	17 136	0.0033 0.0033	1.8									-			
Aldrin	309-00-2	0.19	0.0033	0.019												
alpha BHC	319-84-6	0.02	0.003	0.019								-				
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 TOXAPHENE	72-43-5	900	-	100											-	
Metals	8001-35-2	-		-												-
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	<u>56.8</u>	<u>22.1</u>	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	- 4		26	969	1,410	1,260	1,550	1,280	1,520 0.232 J	1,080	2,370	1,690	1,990	2,130	1,290 0.226 J
Selenium	7782-49-2	8.3	3.9	36	0.424 J	0.28 J	0.224 J	0.381 J	0.287 J		0.342 J	0.114 J	< 0.0943	< 0.0831	0.116 J	
Silver Sodium	7440-22-4 7440-23-5	8.3		36	0.0764 J 41.3 J	0.0505 J 119	0.0313 J 99.9	0.07 J 172	0.0835 J 63.5 J	0.0634 J 69.4 J	0.0835 J 48.2 J	0.0588 J 44.8 J	0.0740 J 45.7 J	0.0344 J 69.3 J	0.0699 J 46.4 J	0.0630 J 48.2 J
Thallium	7440-23-5	-		_	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
	7440-62-2	-	-	100	20	22.4	18.4	34.8	23.3	25.4	24.4	20.6	18.9	19.4	19.1	22.4
				.00												
Vanadium		2480	109	2200	71.8	101	78.8	173	113	97.5	/9.8	91.8	100	87.7	91.9	94.4
	7440-66-6 7439-97-6	2480 0.73	109 0.18	2200 0.81	71.8 0.221	101 0.0872 J	78.8 0.0545 J	173 0.243	113 0.441	97.5 0.597	79.8 0.193	91.8 0.179	100 0.173	87.7 0.0402 J	91.9 0.281	94.4 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					OUIDSPIN	OU1DSB08	OU1DSB09	OUIDSBOO	OU1DSB09	OU1DSB10	OUIDSB10	OU1DSB10	OU1DSB11	OUIDSP11	OU1DSB11
	Sample Date					OU1DSB08 5/22/2017	5/22/2017	5/22/2017	OU1DSB09 5/22/2017	5/22/2017	5/22/2017	OU1DSB10 5/22/2017	5/22/2017	5/22/2017	OU1DSB11 5/22/2017	5/22/2017
	eld Sample ID					OU1DSB08-S-0.50-	OU1DSB08-S-1.00-	OU1DSB09-S-0.17-	OU1DSB09-S-0.50-	OU1DSB09-S-1.00-	OU1DSB10-S-0.17-	OU1DSB10-S-0.50-	OU1DSB10-S-1.00-	OU1DSB11-S-0.17-	OU1DSB11-S-0.50-	OU1DSB11-S-1.00-
				Unrestricted		170522	170522	170522	170522	170522	170522	170522	170522	170522	170522	170522
	Depth Interval	Parameter	27E C 0/b) 9	Use Soil	375-6.8(b) &	0.5-1 REG	1-2 REG	0.17-0.5	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG
Parameter Name	nple Purpose	Parameter Code	375-6.8(b) & CP-51 POG	Cleanup Objectives	CP-51 Residential	REG	KEG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Volatile Organic Compounds			0. 000	0.0,00000	1100.001.11.01						<u> </u>					
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	-	-13-1	6	-	100						< 0.002	< 0.002	< 0.002			
1,1-Dichloroethane		-34-3	0.27	0.27	19						< 0.001	< 0.001	< 0.001			
1,2,3-Trichlorobenzene		-61-6	-	-												
1,2,4-Trichlorobenzene		0-82-1	3.4	-												
1,2-Dibromo-3-chloropropane (DBCF		-12-8	-	-											-	
1,2-Dibromoethane		6-93-4	-	-							< 0.001	< 0.001				
1,2-Dichlorobenzene (o-Dichlorobenz		-50-1	1.1	1.1	100											
1,2-Dichloroethane		7-06-2 -87-5	0.02	0.02	2.3						< 0.001	< 0.001	< 0.001			
1,2-Dichloropropane 1,3-Dichlorobenzene		-87-5 1-73-1	2.4	2.4	17						< 0.001	< 0.001	< 0.001			
1,4-Dichlorobenzene		1-73-1 6-46-7	1.8	1.8	9.8											
2-Butanone (Methyl ethyl ketone)		-93-3	0.3	0.12	100						0.006 J	0.009 J	0.007 J	-		
2-Hexanone		1-78-6									< 0.004	< 0.004	0.007 3			
4-Methyl-2-pentanone		8-10-1	1								< 0.004	< 0.004	< 0.003			
Acetone		-64-1	0.05	0.05	100						0.09	0.058	0.13			
Benzene		-43-2	0.06	0.06	2.9						< 0.0006	0.0008 J	< 0.0005			
Bromochloromethane		-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	8-90-7	1.1	1.1	100						< 0.001	< 0.001				
Chloroethane	75-	-00-3	1.9								< 0.002	< 0.002	< 0.002			
Chloroform		-66-3	0.37	0.37	10						< 0.001	< 0.001	< 0.001			
Chloromethane (Methyl chloride)		-87-3	-		-						< 0.002	< 0.002	< 0.002			
cis-1,2-Dichloroethene		6-59-2	0.25	0.25	59						< 0.001	< 0.001	< 0.001			
cis-1,3-Dichloropropene		061-01-5	-	-							< 0.001	< 0.001	< 0.001			
Cyclohexane		0-82-7	-	-	-						< 0.001	< 0.001	< 0.001		-	
Dibromochloromethane		4-48-1	-	-	-						< 0.001	< 0.001				
Dichlorodifluoromethane (Freon 12)		-71-8	-	-	-						< 0.002	< 0.002	< 0.002			
Diisopropyl ether Ethyl-t-butylether		8-20-3 7-92-3	-	-							< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001			
Ethylbenzene		7-92-3 0-41-4	1	1	30					-	< 0.001	< 0.001	< 0.001			
Isopropylbenzene		-82-8	2.3	-	100					-	< 0.001	< 0.001				
m,p-Xylenes		LENES-MP									< 0.001	< 0.001				
Methyl acetate		-20-9	-	-							< 0.001	< 0.001	< 0.002			
Methyl-t-butyl ether		34-04-4	0.93	0.93	62						< 0.0006	< 0.0006	< 0.0005			
Methylcyclohexane		8-87-2			-						< 0.001	< 0.001	< 0.001			
Methylene chloride (Dichloromethane		-09-2	0.05	0.05	51						< 0.002	< 0.002	< 0.002			
o-Xylene		-47-6	-								< 0.001	< 0.001				
Styrene	100	0-42-5									< 0.001	< 0.001				
tert-Amyl methyl ether	994	4-05-8	-		-						< 0.001	< 0.001	< 0.001			
Tertiary Butyl Alcohol	75-	-65-0	-		-						< 0.024	< 0.024	< 0.02			
Tetrachloroethene	127	7-18-4	1.3	1.3	5.5						< 0.001	< 0.001				
Toluene	108	8-88-3	0.7	0.7	100						< 0.001	0.001 J				
trans-1,2-Dichloroethene	156	6-60-5	0.19	0.19	100						< 0.001	< 0.001	< 0.001			
trans-1,3-Dichloropropene		061-02-6									< 0.001	< 0.001				
Trichloroethene (Trichloroethylene)		-01-6	0.47	0.47	10						< 0.001	< 0.001	< 0.001			
Trichlorofluoromethane (Freon 11)		-69-4	-								< 0.002	< 0.002	< 0.002			
Vinyl chloride (Chloroethene)		-01-4	0.02	0.02	0.21						< 0.001	< 0.001	< 0.001			
Xylene (total)	133	30-20-7	1.60	0.26	100						< 0.001	< 0.001				



	Location ID					OU1DSB08	OU1DSB08	OU1DSB09	OU1DSB09	OU1DSB09	OU1DSB10	OU1DSB10	OU1DSB10	OU1DSB11	OU1DSB11	OU1DSB11
	Sample Date					5/22/2017 OU1DSB08-S-0.50-	5/22/2017 OU1DSB08-S-1.00-	5/22/2017 OU1DSB09-S-0.17-	5/22/2017 OU1DSB09-S-0.50-	5/22/2017 OU1DSB09-S-1.00-	5/22/2017 OU1DSB10-S-0.17-	5/22/2017 OU1DSB10-S-0.50-	5/22/2017 OU1DSB10-S-1.00-	5/22/2017 OU1DSB11-S-0.17-	5/22/2017 OU1DSB11-S-0.50-	5/22/2017 OU1DSB11-S-1.0
	ield Sample ID			Unrestricted		170522	170522	170522	170522	170522	170522	170522	170522	170522	170522	170522
	Depth Interval ample Purpose	Parameter	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) & CP-51	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG
Parameter Name		Code	CP-51 POG	Objectives	Residential											
mivolatile Organic Compound				1		<u> </u>	1		<u> </u>	1		1	<u> </u>	<u> </u>	1	
2,4,5-Tetrachlorobenzene		05-94-3	-	-	-	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
4-Dioxane 3,4,6-Tetrachlorophenol		23-91-1 58-90-2	0.1	0.1	9.8	< 0.12 < 0.078	< 0.11 < 0.075	< 0.11 < 0.074	< 0.11 < 0.075	< 0.11 < 0.073	< 0.13 < 0.087	< 0.61 < 0.41	< 0.56 < 0.37	< 0.11 < 0.075	< 0.56 < 0.37	< 0.11 < 0.074
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	< 0.014
,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
4-Dichlorophenol	1	20-83-2	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
4-Dimethylphenol		05-67-9	-		-	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
,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
4-Dinitrotoluene		21-14-2		-	4.00	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
6-Dinitrotoluene Chloronaphthalene		606-20-2 91-58-7	0.17	-	1.03	< 0.019 < 0.008	< 0.019 < 0.007	< 0.018 < 0.007	< 0.019 < 0.008	< 0.018 < 0.007	< 0.022 < 0.009	< 0.1 < 0.041	< 0.093 < 0.037	< 0.019 < 0.007	< 0.094 < 0.037	< 0.018 < 0.007
Chlorophenol (o-Chlorophenol))5-57-8	-	-	100	< 0.019	< 0.019	< 0.007	< 0.019	< 0.007	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
Methyl-Naphthalene		1-57-6	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
Methylphenol (o-Cresol)		5-48-7	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
Nitroaniline (o-Nitroaniline)	8	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
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'-Dichlorobenzidine		01-94-1	-	-	-	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.13	< 0.61	< 0.56	< 0.11	< 0.56	< 0.11
Nitroaniline		9-09-2	0.5	-	-	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
6-Dinitro-2-methylphenol (4,6-Dir Bromophenylphenylether		34-52-1 01-55-3	-	-	-	< 0.19	< 0.19	< 0.18	< 0.19	< 0.18	< 0.22	<1	< 0.93	< 0.19	< 0.93	< 0.18
Chloroaniline		01-55-3 06-47-8	0.22	-	100	< 0.019 < 0.039	< 0.019 < 0.037	< 0.018 < 0.037	< 0.019 < 0.038	< 0.018 < 0.036	< 0.022 < 0.044	< 0.1 < 0.2	< 0.093 < 0.19	< 0.019 < 0.037	< 0.094 < 0.19	< 0.018 < 0.037
Chlorophenyl phenyl ether		7005-72-3	0.22			< 0.039	< 0.037	< 0.037	< 0.038	< 0.036	< 0.044	< 0.2	< 0.19	< 0.019	< 0.19	< 0.037
Methylphenol (p-Cresol)		06-44-5	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
Nitroaniline		00-01-6	-	-	-	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
Nitrophenol	1	00-02-7	0.1	-	-	< 0.19	< 0.19	< 0.18	< 0.19	< 0.18	< 0.22	< 1	< 0.93	< 0.19	< 0.93	< 0.18
enaphthene	8	33-32-9	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
enaphthylene	2	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
cetophenone		8-86-2	-	-	-	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.10	< 0.093	< 0.019	< 0.094	< 0.018
nthracene		20-12-7	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
razine		912-24-9	-	-	-	< 0.039	< 0.037	< 0.037	< 0.038	< 0.036	< 0.044	< 0.20	< 0.19	< 0.037	< 0.19	< 0.037
enzaldehyde enzo(a)anthracene		00-52-7 66-55-3	1	1		< 0.078	< 0.075 0.087	< 0.074 0.074	< 0.075 0.006 J	< 0.073 < 0.004	< 0.087 0.27	< 0.41	< 0.37 0.13	< 0.075 0.029	< 0.37 0.098	< 0.074 0.075
enzo(a)pyrene		i0-32-8	22	1	1	0.11	0.079	0.058	0.000 J	< 0.004	0.32	0.19	0.15	0.029	0.098	0.073
enzo(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
enzo(g,h,i)perylene		91-24-2	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
enzo(k)fluoranthene	2	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
s(2-Chloroethoxy)methane	1	11-91-1	-	-	-	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
s(2-Chloroethyl) ether		11-44-4	-	-	-	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
s(2-chloroisopropyl) ether		08-60-1	-	-	-	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
s(2-Ethylhexyl)phthalate		17-81-7	435	-	50	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
utylbenzylphthalate		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
aprolactam arbazole		05-60-2 86-74-8	-	-		< 0.039	< 0.037 < 0.019	< 0.037	< 0.038	< 0.036	< 0.044	< 0.20	< 0.19 < 0.093	< 0.037	< 0.19	< 0.037
hrysene		218-01-9	1	1	1	< 0.019 0.13	0.019	< 0.018 0.074	< 0.019 0.008 J	< 0.018 < 0.004	< 0.022 0.28	< 0.1 0.17	< 0.093 0.15	< 0.019 0.035	< 0.094 0.11	< 0.018 0.087
i-n-butylphthalate		34-74-2	8.1	-	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.004	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
i-n-octylphthalate		17-84-0	120	_	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
benz(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
benzofuran		32-64-9	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
ethylphthalate		34-66-2	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
methyl phthalate		31-11-3	27	-	100	< 0.078	< 0.075	< 0.074	< 0.075	< 0.073	< 0.087	< 0.41	< 0.37	< 0.075	< 0.37	< 0.074
phenyl (Biphenyl, Phenyl benzen		02-52-4				< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.10	< 0.093	< 0.019	< 0.094	< 0.018
uoranthene		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
uorene exachlorobenzene		36-73-7 18-74-1	386 1.4	30 0.33	100 0.33	0.01 J < 0.004	0.009 J < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	0.012 J < 0.004	< 0.02 < 0.02	< 0.019 < 0.019	< 0.004 < 0.004	< 0.019 < 0.019	0.011 J < 0.004
exachlorobutadiene		37-68-3	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
xachlorocyclopentadiene		7-47-4	_	_	_	< 0.19	< 0.19	< 0.18	< 0.19	< 0.18	< 0.22	< 1	< 0.93	< 0.19	< 0.93	< 0.18
xachloroethane		 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
eno(1,2,3-cd)Pyrene		93-39-5	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
phorone	7	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
Nitrosodi-n-propylamine	6	21-64-7	-	-	-	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
Nitrosodiphenylamine (Diphenyla		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
aphthalene		1-20-3	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	0.015 J
trobenzene		8-95-3	0.17	-	3.7	< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
Chloro-m-cresol		9-50-7				< 0.019	< 0.019	< 0.018	< 0.019	< 0.018	< 0.022	< 0.1	< 0.093	< 0.019	< 0.094	< 0.018
entachlorophenol nenanthrene		37-86-5 35-01-8	0.8	0.8	2.4	< 0.039	< 0.037	< 0.037	< 0.038	< 0.036	< 0.044	< 0.2	< 0.19	< 0.037	< 0.19	< 0.037
nenanthrene nenol		08-95-2	1000 0.33	100 0.33	100 100	0.11 < 0.019	0.11 < 0.019	0.046 < 0.018	0.006 J < 0.019	< 0.004 < 0.018	0.15 < 0.022	0.1 J < 0.1	0.066 J < 0.093	0.032 < 0.019	0.17 < 0.094	0.11 < 0.018
rene		29-00-0	1000	100	100	0.16	0.16	0.11	0.019 0.012 J	0.005 J	0.35	0.1	0.18	0.056	0.19	0.14



Samp Field Sai Depth Sample P	mple ID Interval urpose Parameter	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	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
Parameter Name Polychlorinated Biphenyls	Code	CP-51 POG	Objectives	Residential											
Aroclor 1016	12674-11-2			_									< 0.004	< 0.02	< 0.02
Aroclor 1221	11104-28-2													< 0.026	< 0.02
Aroclor 1221 Aroclor 1232	11141-16-5	-	-	-									< 0.0051 < 0.0089	< 0.026	< 0.025
Aroclor 1242	53469-21-9			_									< 0.0037	< 0.043	< 0.044
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				,			1			1					
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	<u>22.4</u>	<u>62.6</u>	<u>42.4</u>	<u>19.2</u>	<u>79</u>	<u>108</u>
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
	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
Cadmium	7446 77 7				0.0=0			262	175	6,020	51,500	14,800	6,740	60,000	67,000
Calcium	7440-70-2				2,670	1,910	733			46 -				11.9	11.3
Calcium Chromium	7440-47-3	-	30	36	13.9	15.6	16.4	17.6	12.7	16.5	12	10.9	16.8	0	F 00
Calcium Chromium Cobalt	7440-47-3 7440-48-4		30	36 30	13.9 8.82	15.6 9.98	16.4 10.9	17.6 11.5	12.7 8.92	10.6	8.09	6.6	9.74	6.22	5.86
Calcium Chromium Cobalt Copper	7440-47-3 7440-48-4 7440-50-8	 1720	30	36 30 270	13.9 8.82 23.2	15.6 9.98 25.6	16.4 10.9 24.7	17.6 11.5 24	12.7 8.92 18.1	10.6 25.2	8.09 18	6.6 15	9.74 23.2	17.8	17.7
Calcium Chromium Cobalt Copper Iron	7440-47-3 7440-48-4 7440-50-8 7439-89-6	 1720 	30 50 	36 30 270 2000	13.9 8.82 23.2 22,400	15.6 9.98 25.6 29,000	16.4 10.9 24.7 27,400	17.6 11.5 24 29,800	12.7 8.92 18.1 23,600	10.6 25.2 27,900	8.09 18 23,400	6.6 15 20,800	9.74 23.2 28,000	17.8 19,300	17.7 19,000
Calcium Chromium Cobalt Copper Iron Lead	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 1720 450	30 50 63	36 30 270 2000 400	13.9 8.82 23.2 22,400 19.4	15.6 9.98 25.6 29,000 16.3	16.4 10.9 24.7 27,400 16.9	17.6 11.5 24 29,800 15	12.7 8.92 18.1 23,600 9.48	10.6 25.2 27,900 31.2	8.09 18 23,400 43.2	6.6 15 20,800 33.2	9.74 23.2 28,000 22.6	17.8 19,300 52.5	17.7 19,000 51.1
Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	 1720 450	30 50 63	36 30 270 2000 400	13.9 8.82 23.2 22,400 19.4 5,680	15.6 9.98 25.6 29,000 16.3 6,290	16.4 10.9 24.7 27,400 16.9 5,050	17.6 11.5 24 29,800 15 6,010	12.7 8.92 18.1 23,600 9.48 4,440	10.6 25.2 27,900 31.2 8,090	8.09 18 23,400 43.2 35,300	6.6 15 20,800 33.2 11,800	9.74 23.2 28,000 22.6 9,130	17.8 19,300 52.5 44,800	17.7 19,000 51.1 44,200
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5	 1720 450 2000	30 50 63 1600	36 30 270 2000 400 2000	13.9 8.82 23.2 22,400 19.4 5,680 537	15.6 9.98 25.6 29,000 16.3 6,290 612	16.4 10.9 24.7 27,400 16.9 5,050 628	17.6 11.5 24 29,800 15 6,010	12.7 8.92 18.1 23,600 9.48 4,440 452	10.6 25.2 27,900 31.2 8,090 2,790	8.09 18 23,400 43.2 35,300 421	6.6 15 20,800 33.2 11,800 385	9.74 23.2 28,000 22.6 9,130 567	17.8 19,300 52.5 44,800 431	17.7 19,000 51.1 44,200 429
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-47-3 7440-48-4 7440-50-8 7439-96-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0	 1720 450 2000	30 50 63 1600 30	36 30 270 2000 400 2000 140	13.9 8.82 23.2 22,400 19.4 5,680 537	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1	17.6 11.5 24 29,800 15 6,010 699 26.4	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1	10.6 25.2 27,900 31.2 8,090 2,790 22.5	8.09 18 23,400 43.2 35,300 421 16.8	6.6 15 20,800 33.2 11,800 385 22.1	9.74 23.2 28,000 22.6 9,130 567 21.8	17.8 19,300 52.5 44,800 431 12.8	17.7 19,000 51.1 44,200 429 17.1
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	 1720 450 2000 130	30 50 63 1600 30	36 30 270 2000 400 2000 140	13.9 8.82 23.2 22,400 19.4 5,680 537 17	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9 1,560	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1 1,610	17.6 11.5 24 29,800 15 6,010 699 26.4 1,660	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1 1,230	10.6 25.2 27,900 31.2 8,090 2,790 22.5 1,500	8.09 18 23,400 43.2 35,300 421 16.8 1,560	6.6 15 20,800 33.2 11,800 385 22.1 1,390	9.74 23.2 28,000 22.6 9,130 567 21.8 1,360	17.8 19,300 52.5 44,800 431 12.8 1,260	17.7 19,000 51.1 44,200 429 17.1 1,170
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	 1720 450 2000 130 4	30 50 63 1600 30 3.9	36 30 270 2000 400 2000 140 36	13.9 8.82 23.2 22,400 19.4 5,680 537 17 1,470 0.188 J	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9 1,560 0.139 J	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1 1,610 0.214 J	17.6 11.5 24 29,800 15 6,010 699 26.4 1,660 0.210 J	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1 1,230 0.106 J	10.6 25.2 27,900 31.2 8,090 2.790 22.5 1,500 0.189 J	8.09 18 23,400 43.2 35,300 421 16.8 1,560 0.175 J	6.6 15 20,800 33.2 11,800 385 22.1 1,390 0.135 J	9.74 23.2 28,000 22.6 9,130 567 21.8 1,360 0.149 J	17.8 19,300 52.5 44,800 431 12.8 1,260 0.163 J	17.7 19,000 51.1 44,200 429 17.1 1,170 0.160 J
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	 1720 450 2000 130 4 8.3	30 50 63 1600 30 3.9	36 30 270 2000 400 2000 140 36 36	13.9 8.82 23.2 22,400 19.4 5,680 537 17 1,470 0.188 J 0.0390 J	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9 1,560 0.139 J 0.0235 J	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1 1,610 0.214 J 0.0522 J	17.6 11.5 24 29,800 15 6,010 699 26.4 1,660 0,210 J < 0.0256	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1 1,230 0.106 J < 0.0227	10.6 25.2 27,900 31.2 8,090 2,790 22.5 1,500 0.189 J 0.0533 J	8.09 18 23,400 43.2 35,300 421 16.8 1,560 0.175 J 0.0447 J	6.6 15 20,800 33.2 11,800 385 22.1 1,390 0.135 J 0.0419 J	9.74 23.2 28,000 22.6 9,130 567 21.8 1,360 0.149 J 0.0510 J	17.8 19,300 52.5 44,800 431 12.8 1,260 0.163 J 0.0580 J	17.7 19,000 51.1 44,200 429 17.1 1,170 0.160 J 0.0665 J
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	 1720 450 2000 130 4 8.3	30 50 63 1600 30 3.9 2	36 30 270 2000 400 2000 140 36 36	13.9 8.82 23.2 22,400 19.4 5,680 537 17 1,470 0.188 J 0.0390 J 43.1 J	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9 1,560 0.139 J 0.0235 J 46.1 J	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1 1,610 0.214 J 0.0522 J 38.8 J	17.6 11.5 24 29,800 15 6,010 699 26.4 1,660 0.210 J < 0.0256 40.8 J	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1 1,230 0.106 J < 0.0227 32.6 J	10.6 25.2 27,900 31.2 8,090 2,790 22.5 1,500 0.189 J 0.0533 J 56.4 J	8.09 18 23,400 43.2 35,300 421 16.8 1,560 0.175 J 0.0447 J 83.1 J	6.6 15 20,800 33.2 11,800 385 22.1 1,390 0.135 J 0.0419 J 77.9	9.74 23.2 28,000 22.6 9,130 567 21.8 1,360 0.149 J 0.0510 J 40.4 J	17.8 19,300 52.5 44,800 431 12.8 1,260 0.163 J 0.0580 J 89.8	17.7 19,000 51.1 44,200 429 17.1 1,170 0.160 J 0.0665 J 111
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	 1720 450 2000 130 4 8.3 	30 50 63 1600 30 3.9 2	36 30 270 2000 400 2000 140 36 36 	13.9 8.82 23.2 22,400 19.4 5,680 537 17 1,470 0.188 J 0.0390 J 43.1 J 0.0929 J	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9 1,560 0.139 J 0.0235 J 46.1 J 0.0786 J	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1 1,610 0.214 J 0.0522 J 38.8 J 0.0932 J	17.6 11.5 24 29,800 15 6,010 699 26.4 1,660 0.210 J < 0.0256 40.8 J 0.109 J	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1 1,230 0.106 J < 0.0227 32.6 J 0.0853 J	10.6 25.2 27,900 31.2 8,090 2,790 22.5 1,500 0.189 J 0.0533 J 56.4 J 0.112 J	8.09 18 23,400 43.2 35,300 421 16.8 1,560 0.175 J 0.0447 J 83.1 J 0.0791 J	6.6 15 20,800 33.2 11,800 385 22.1 1,390 0.135 J 0.0419 J 77.9 0.0770 J	9.74 23.2 28,000 22.6 9,130 567 21.8 1,360 0.149 J 0.0510 J 40.4 J 0.0845 J	17.8 19,300 52.5 44,800 431 12.8 1,260 0.163 J 0.0580 J 89.8 0.0842 J	17.7 19,000 51.1 44,200 429 17.1 1,170 0.160 J 0.0665 J 111
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-47-3 7440-48-4 7440-50-8 7439-86-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	 1720 450 2000 130 4 8.3 	30 50 63 1600 30 3.9 2	36 30 270 2000 400 2000 140 36 36 -	13.9 8.82 23.2 22,400 19.4 5,680 537 17 1,470 0.188 J 0.0390 J 43.1 J 0.0929 J 20	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9 1,560 0.139 J 0.0235 J 46.1 J 0.0786 J 20.8	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1 1,610 0,214 J 0,0522 J 38.8 J 0,0932 J 22.5	17.6 11.5 24 29,800 15 6,010 699 26.4 1,660 0.210 J < 0.0256 40.8 J 0.109 J 22.4	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1 1,230 0.106 J < 0.0227 32.6 J 0.0853 J 14.1	10.6 25.2 27,900 31.2 8,090 2,790 22.5 1,500 0.189 J 0.0533 J 56.4 J 0.112 J 23.3	8.09 18 23,400 43.2 35,300 421 16.8 1,560 0.175 J 0.0447 J 83.1 J 0.0791 J 23.7	6.6 15 20,800 33.2 11,800 385 22.1 1,390 0.135 J 0.0419 J 77.9 0.0770 J 21.2	9.74 23.2 28,000 22.6 9,130 567 21.8 1,360 0.149 J 0.0510 J 40.4 J 0.0845 J 21.5	17.8 19,300 52.5 44,800 431 12.8 1,260 0.163 J 0.0580 J 89.8 0.0842 J 19	17.7 19,000 51.1 44,200 429 17.1 1,170 0.160 J 0.0665 J 111 0.0876 J
Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	 1720 450 2000 130 4 8.3 	30 50 63 1600 30 3.9 2	36 30 270 2000 400 2000 140 36 36 	13.9 8.82 23.2 22,400 19.4 5,680 537 17 1,470 0.188 J 0.0390 J 43.1 J 0.0929 J	15.6 9.98 25.6 29,000 16.3 6,290 612 22.9 1,560 0.139 J 0.0235 J 46.1 J 0.0786 J	16.4 10.9 24.7 27,400 16.9 5,050 628 22.1 1,610 0.214 J 0.0522 J 38.8 J 0.0932 J	17.6 11.5 24 29,800 15 6,010 699 26.4 1,660 0.210 J < 0.0256 40.8 J 0.109 J	12.7 8.92 18.1 23,600 9.48 4,440 452 21.1 1,230 0.106 J < 0.0227 32.6 J 0.0853 J	10.6 25.2 27,900 31.2 8,090 2,790 22.5 1,500 0.189 J 0.0533 J 56.4 J 0.112 J	8.09 18 23,400 43.2 35,300 421 16.8 1,560 0.175 J 0.0447 J 83.1 J 0.0791 J	6.6 15 20,800 33.2 11,800 385 22.1 1,390 0.135 J 0.0419 J 77.9 0.0770 J	9.74 23.2 28,000 22.6 9,130 567 21.8 1,360 0.149 J 0.0510 J 40.4 J 0.0845 J	17.8 19,300 52.5 44,800 431 12.8 1,260 0.163 J 0.0580 J 89.8 0.0842 J	17.7 19,000 51.1 44,200 429 17.1 1,170 0.160 J 0.0665 J 111

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



Sa Field Der Sampl	ocation ID mple Date Sample ID th Interval e Purpose Parame			375-6.8(b) & CP-51	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
Parameter Name	Code	CP-51	POG Objective	s Residential												<u> </u>
olatile Organic Compounds ,1 Dichloroethene	75-35-4	0.0	0.00	400	0.0004	0.0005	0.0005	0.0005	0.0005							
		0.3		100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005				-			
,1,1-Trichloroethane	71-55-6	0.6		100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	-		-	-		-	-
,1,2,2-Tetrachloroethane ,1,2-Trichloroethane	79-34-5	0.		35	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004				-		-	-
	79-00-5	-	-		< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-		-	-			-
,1,2-Trichlorotrifluoroethane (Freon 11		6		100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006			-	-		-	-
1-Dichloroethane	75-34-3	0.2		19	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-		-			-	
,2,3-Trichlorobenzene ,2,4-Trichlorobenzene	87-61-6	-		-	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	-		-	-
	120-82-1	3.		-	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	-		-	-			-
,2-Dibromo-3-chloropropane (DBCP)	96-12-8	-	-	-	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004	-		-	-	-		-
,2-Dibromoethane	106-93-4		-	-	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004			-	-	-	-	-
,2-Dichlorobenzene (o-Dichlorobenzer		1.		100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005			-	-			
,2-Dichloroethane	107-06-2	0.0		2.3	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006				-			
,2-Dichloropropane	78-87-5	-		-	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005				-			
,3-Dichlorobenzene	541-73-1	2.		17	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005			-	-			
,4-Dichlorobenzene	106-46-7	1.3		9.8	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004				-			
-Butanone (Methyl ethyl ketone)	78-93-3	0.:	0.12	100	< 0.0009	< 0.0009	0.003 J	0.001 J	0.008 J				-			
-Hexanone	591-78-6	-	-	-	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001				-			
-Methyl-2-pentanone	108-10-1	1	-	-	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001				-		-	
Acetone	67-64-1	0.0	0.05	100	0.024	0.025	0.043	0.03	0.081				-			
Benzene	71-43-2	0.0	0.06	2.9	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005				-			
romochloromethane	74-97-5	-	-	-	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006			-	-		-	-
romodichloromethane	75-27-4	-			< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004							
romoform	75-25-2				< 0.004	< 0.005	< 0.005	< 0.005	< 0.005							
romomethane (Methyl bromide)	74-83-9	-	-	-	< 0.0006	< 0.0007	< 0.0007	< 0.0007	< 0.0007				-			
arbon disulfide	75-15-0	2.	-	100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006				-			
arbon Tetrachloride	56-23-5	0.7	0.76	1.4	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005				-			
Chlorobenzene	108-90-7	1.	1.1	100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005							
Chloroethane	75-00-3	1.3	-	-	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001			-	-	-		-
hloroform	67-66-3	0.3	7 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				-			-
is-1,2-Dichloroethene	156-59-2	0.2	5 0.25	59	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005							
s-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				-			
hichlorodifluoromethane (Freon 12)	75-71-8	_			< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006				-			
iisopropyl ether	108-20-3	_	_	-	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005			-	-	-		
thyl-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			-	-	-		
opropylbenzene	98-82-8	2.	<u> </u>	100	< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004			<u> </u>		-		
ı,p-Xylenes	XYLENES-I			-	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001			-	-	-		
lethyl acetate	79-20-9			-	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001							
lethyl-t-butyl ether	1634-04-4	0.9		62	< 0.0003	< 0.0005	< 0.0005	< 0.0005	< 0.0005			-				
ethylcyclohexane	108-87-2	0.3			< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-		-				
ethylene chloride (Dichloromethane)	75-09-2	0.0		51	< 0.002	< 0.002	< 0.002	< 0.000	< 0.000							
Xylene	95-47-6	0.0			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-			-			
yrene	100-42-5				< 0.0003	< 0.0004	< 0.0004	< 0.0004	< 0.0004		-		-		-	-
rt-Amyl methyl ether	994-05-8		<u>-</u>		< 0.0003	< 0.0008	< 0.0008	< 0.0003	< 0.0008			-	-			-
		_		_						-	-		-		-	
ertiary Butyl Alcohol etrachloroethene	75-65-0	1.3	4.0	5.5	< 0.013	< 0.014	< 0.015	< 0.016	< 0.014	-	-		-		-	-
	127-18-4				< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005							
oluene	108-88-3	0.1		100	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006			-	-			
ans-1,2-Dichloroethene	156-60-5	0.1		100	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005			-	-		-	-
ans-1,3-Dichloropropene	10061-02-6	-		-	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003				-		-	
richloroethene (Trichloroethylene)	79-01-6	0.4		10	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005				-			
richlorofluoromethane (Freon 11)	75-69-4	-		-	< 0.0006	< 0.0007	< 0.0007	< 0.0007	< 0.0007				-			
nyl chloride (Chloroethene)	75-01-4	0.0		0.21	< 0.0005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	-		-	-		-	
rlene (total)	1330-20-7	1.6	0.26	100	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001							



	Location ID Sample Date Field Sample ID			Unrestricted		OU1DSB03 11/12/2018 OU1DSB03-S-10.00-	OU1DSB03 11/12/2018 OU1DSB03-S-14.00-	OU1DSB03 11/12/2018 OU1DSB03-S-6.00-	OU1DSB04 11/13/2018 OU1DSB04-S-10.00-	OU1DSB04 11/13/2018 OU1DSB04-S-6.00-	OU1DSB05 11/12/2018 OU1DSB05-S-14.00-	OU1DSB05 11/12/2018 OU1DSB05-S-4.00-	OU1DSB05 11/12/2018 OU1DSB05-S-6.00-	OU1DSB06 11/12/2018 OU1DSB06-S-16.00-	OU1DSB06 11/12/2018 OU1DSB06-S-2.00-	OU1DSB06 11/12/2018 OU1DSB06-S-6.00-	OU1DSB08 11/12/2018 OU1DSB08-S-14.00
	Depth Interval	rameter	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) & CP-51	10-12 REG	14-16 REG	6-8 REG	10-12 REG	6-8 REG	14-16 REG	4-6 REG	6-8 REG	16-18 REG	2-4 REG	6-8 REG	14-16 REG
Parameter Name		Code	CP-51 POG	Objectives	Residential												
emivolatile Organic Compound										0							
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
4-Dioxane	123-91-		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
3,4,6-Tetrachlorophenol	58-90-2				-	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
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
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
4-Dichlorophenol	120-83-		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
4-Dimethylphenol	105-67-		-	-		< 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-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
1-Dinitrotoluene	121-14-			-		< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
i-Dinitrotoluene	606-20-		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
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
Chlorophenol (o-Chlorophenol)				-	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
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
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
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
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
'-Dichlorobenzidine	91-94-1		 0.E	-	-	< 0.11	< 0.11	< 0.12	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11
litroaniline	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
6-Dinitro-2-methylphenol (4,6-D			-	-	-	< 0.19	< 0.19	< 0.2	< 0.21	< 0.2	< 0.18	< 0.2	< 0.2	< 0.18	< 0.18	< 0.19	< 0.18
Bromophenylphenylether	101-55-					< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
Chloroaniline	106-47-		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
Chlorophenyl phenyl ether	7005-72		-			< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
Methylphenol (p-Cresol)	106-44-		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
Vitroaniline	100-01-					< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
itrophenol	100-02-		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
enaphthene	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
enaphthylene	208-96-		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
tophenone	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
thracene	120-12-		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
razine	1912-24		-		-	< 0.037	< 0.038	< 0.039	< 0.042	< 0.04	< 0.037	< 0.041	< 0.041	< 0.036	< 0.036	< 0.038	< 0.036
nzaldehyde	100-52-		-	-	-	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
enzo(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
enzo(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
enzo(b)fluoranthene	205-99-		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
nzo(g,h,i)perylene	191-24-		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
nzo(k)fluoranthene	207-08-		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
(2-Chloroethoxy)methane	111-91-			-		< 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-Chloroethyl) ether	111-44-		-	-		< 0.026	< 0.026	< 0.027	< 0.03	< 0.028	< 0.026	< 0.029	< 0.029	< 0.025	< 0.025	< 0.026	< 0.025
(2-chloroisopropyl) ether	108-60-			-		< 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-Ethylhexyl)phthalate	117-81-		435	-	50	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
itylbenzylphthalate	85-68-7		122		100	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
prolactam	105-60-			-		< 0.037	< 0.038	< 0.039	< 0.042	< 0.04	< 0.037	< 0.041	< 0.041	< 0.036	< 0.036	< 0.038	< 0.036
rbazole	86-74-8		-		-	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
rysene	218-01-		1	1	1	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.01 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
-n-butylphthalate	84-74-2		8.1		100	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
n-octylphthalate	117-84-		120		100	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
enz(a,h)anthracene	53-70-3		1000	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
enzofuran	132-64-		6.20	7	14	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
thylphthalate	84-66-2		7.1		100	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
nethyl phthalate	131-11-		27		100	< 0.074	< 0.075	< 0.078	< 0.085	< 0.081	< 0.073	< 0.082	< 0.082	< 0.072	< 0.071	< 0.075	< 0.072
henyl (Biphenyl, Phenyl benz	ene) 92-52-4	4				< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
oranthene	206-44-		1000	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.012 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
orene	86-73-7	7	386	30	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
xachlorobenzene	118-74-	-1	1.4	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
achlorobutadiene	87-68-3	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
achlorocyclopentadiene	77-47-4	4	-		-	< 0.19	< 0.19	< 0.2	< 0.21	< 0.2	< 0.18	< 0.2	< 0.2	< 0.18	< 0.18	< 0.19	< 0.18
achloroethane	67-72-1	1		-		< 0.037	< 0.038	< 0.039	< 0.042	< 0.04	< 0.037	< 0.041	< 0.041	< 0.036	< 0.036	< 0.038	< 0.036
eno(1,2,3-cd)Pyrene	193-39-	-5	8.2	0.5	0.5	< 0.007	< 0.008	< 0.008	< 0.008	< 0.008	< 0.007	< 0.008	< 0.008	< 0.007	< 0.007	< 0.008	< 0.007
phorone	78-59-1	1	4.4		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
litrosodi-n-propylamine	621-64-					< 0.022	< 0.023	< 0.023	< 0.025	< 0.024	< 0.022	< 0.024	< 0.025	< 0.022	< 0.021	< 0.023	< 0.022
itrosodiphenylamine (Diphen			-	-	-	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
ohthalene	91-20-3		12	12	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
obenzene	98-95-3		0.17	-	3.7	< 0.03	< 0.03	< 0.031	< 0.034	< 0.032	< 0.029	< 0.033	< 0.033	< 0.029	< 0.029	< 0.03	< 0.029
Chloro-m-cresol	59-50-7		-		-	< 0.019	< 0.019	< 0.02	< 0.021	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.019	< 0.018
ntachlorophenol	87-86-5		0.8	0.8	2.4	< 0.041	< 0.041	< 0.043	< 0.047	< 0.044	< 0.04	< 0.045	< 0.045	< 0.04	< 0.039	< 0.041	< 0.04
enanthrene	85-01-8		1000	100	100	< 0.004	< 0.004	< 0.043	< 0.004	< 0.004	< 0.004	0.009 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
enol	108-95-		0.33	0.33	100	< 0.026	< 0.026	< 0.027	< 0.03	< 0.028	< 0.026	< 0.029	< 0.029	< 0.025	< 0.025	< 0.026	< 0.025
ene	129-00-		1000	100	100	< 0.020	< 0.004	0.004 J	< 0.004	0.005 J	< 0.004	0.02 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004



	Location ID				OU1DSB03	OU1DSB03	OU1DSB03	OU1DSB04	OU1DSB04	OU1DSB05	OU1DSB05	OU1DSB05	OU1DSB06	OU1DSB06	OU1DSB06	OU1DSB08
	Sample Date				11/12/2018	11/12/2018	11/12/2018	11/13/2018	11/13/2018	11/12/2018	11/12/2018	11/12/2018	11/12/2018	11/12/2018	11/12/2018	11/12/2018
	Field Sample ID		Unrestricted		OU1DSB03-S-10.00-	OU1DSB03-S-14.00-	OU1DSB03-S-6.00-	OU1DSB04-S-10.00-	OU1DSB04-S-6.00-	OU1DSB05-S-14.00-	OU1DSB05-S-4.00-	OU1DSB05-S-6.00-	OU1DSB06-S-16.00-	OU1DSB06-S-2.00-	OU1DSB06-S-6.00-	OU1DSB08-S-14.00-
	Depth Interval		Use Soil	375-6.8(b) &	10-12	14-16	6-8	10-12	6-8	14-16	4-6	6-8	16-18	2-4	6-8	14-16
	Sample Purpose Parame	er 375-6.8(b) &	Cleanup	CP-51	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Na	lame Code	CP-51 POG	Objectives	Residential												
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				100					-				< 0.002 D1	< 0.0019 D1	< 0.002 D1	
		900				-			-				< 0.015 Z D1			
	72-43-5	900												< 0.015 Z D1	< 0.016 Z D1	
TOXAPHENE				-		-								< 0.015 Z D1	< 0.016 Z D1	
TOXAPHENE Metals	72-43-5 8001-35-2			-					18.400			18,500				
TOXAPHENE Metals Aluminum	72-43-5 8001-35-2 7429-90-5				15,200	13,800	23,000	20,800	18,400 < 0.115	11,300	14,100	18,500 0.15 J	11,900	14,200	12,300	13,700
TOXAPHENE Metals Aluminum Antimony	72-43-5 8001-35-2 7429-90-5 7440-36-0				15,200 < 0.135	13,800 0.133 J	23,000 < 0.141	20,800 < 0.131	< 0.115	11,300 < 0.114	14,100 0.116 J	0.15 J	11,900 < 0.13	14,200 0.127 J	12,300 0.104 J	13,700 0.18 J
TOXAPHENE Metals Aluminum Antimony Arsenic	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2	 16	 13	 16	15,200 < 0.135 6.82	13,800 0.133 J 5.4	23,000 < 0.141 6.12	20,800 < 0.131 10.1	< 0.115 5.43	11,300 < 0.114 4.42	14,100 0.116 J 6.37	0.15 J 5.55	11,900 < 0.13 4.39	14,200 0.127 J 4.77	12,300 0.104 J 6.32	13,700 0.18 J 6.37
TOXAPHENE Metals Aluminum Antimony Arsenic Barium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3		 13 350	 16 350	15,200 < 0.135 6.82 23.2	13,800 0.133 J 5.4 75.4	23,000 < 0.141 6.12 68	20,800 < 0.131 10.1 102	< 0.115 5.43 53.4	11,300 < 0.114 4.42 35.7	14,100 0.116 J 6.37 53.7	0.15 J 5.55 54.4	11,900 < 0.13 4.39 55.2	14,200 0.127 J 4.77 39.1	12,300 0.104 J 6.32 40.8	13,700 0.18 J 6.37 60.8
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7	 16 820 47	 13 350 7.2	 16 350 14	15,200 < 0.135 6.82 23.2 0.746	13,800 0.133 J 5.4 75.4 0.627	23,000 < 0.141 6.12 68 0.637	20,800 < 0.131 10.1 102 0.798	< 0.115 5.43 53.4 0.619	11,300 < 0.114 4.42 35.7 0.799	14,100 0.116 J 6.37 53.7 0.582	0.15 J 5.55 54.4 0.725	11,900 < 0.13 4.39 55.2 0.503	14,200 0.127 J 4.77 39.1 0.754	12,300 0.104 J 6.32 40.8 0.66	13,700 0.18 J 6.37 60.8 0.645
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820	 13 350	 16 350	15,200 < 0.135 6.82 23.2 0.746 0.14 J	13,800 0.133 J 5.4 75.4 0.627 0.0778 J	23,000 < 0.141 6.12 68 0.637 0.119 J	20,800 < 0.131 10.1 102 0.798 0.138 J	< 0.115 5.43 53.4 0.619 0.0796 J	11,300 < 0.114 4.42 35.7 0.799 0.0468 J	14,100 0.116 J 6.37 53.7 0.582 0.134 J	0.15 J 5.55 54.4 0.725 0.112 J	11,900 < 0.13 4.39 55.2 0.503 0.0718 J	14,200 0.127 J 4.77 39.1 0.754 0.0827 J	12,300 0.104 J 6.32 40.8 0.66 0.158 J	13,700 0.18 J 6.37 60.8 0.645 0.112 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50	 13 350 7.2 2.5	 16 350 14 2.5	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670	< 0.115 5.43 53.4 0.619 0.0796 J	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430	0.15 J 5.55 54.4 0.725 0.112 J 1,710	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50	 13 350 7.2 2.5	 16 350 14 2.5 36	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-40-9 7440-7-3 7440-47-3	 16 820 47 7.50	 13 350 7.2 2.5 30	 16 350 14 2.5 36	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50	 13 350 7.2 2.5	 16 350 14 2.5 36 30 270	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7,97 12.9	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	 13 350 7.2 2.5 30	 16 350 14 2.5 36 30 270	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-92-1 7439-95-4	 16 820 47 7.50 1720 450	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000 400	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-1 7439-95-1	16 820 47 7.50 1720 450 2000	 13 350 7.2 2.5 30 50 63 1600	 16 350 14 2.5 36 30 270 2000 400 	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,550 501	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510 388	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-47-3 7440-50-8 7439-89-6 7439-95-5 7440-92-0	 16 820 47 7.50 1720 450	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000 400	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560 501 30.5	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5.020 611 22.1	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711 21	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	72-43-5 8001-35-2 7429-90-5 7440-38-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-88-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7		 13 350 7.2 2.5 30 50 63 1600 30	 16 350 14 2.5 36 30 270 2000 400 2000 140	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6 2,560	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2 2,420	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18 1,250	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560 501 30.5 1,800	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611 22.1 1,210	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7 1,330	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2 1,300	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2 2,820	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3 1,990	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711 21 1,460	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3 1,540	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5 2,500
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-93-6 7439-95-4 7439-95-4 7439-95-4 7440-92-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	 13 350 7.2 2.5 30 50 63 1600 30 3.9	 16 350 14 2.5 36 30 270 2000 400 2000 140 36	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6 2,560 0.136 J	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2 2,420 0.169 J	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18 1,250 0.368	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560 501 30.5 1,800 < 0.145	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611 22.1 1,210 0.286 J	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7 1,330 0.154 J	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2 1,300 0.237 J	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2 2,820 0.172 J	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3 1,990 0.164 J	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711 21 1,460 0.129 J	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3 1,540 < 0.124	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5 2,500 < 0.135
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7440-02-0 7440-02-0 7440-02-0 7440-02-2	16 820 47 7.50 1720 450 2000 130 4 8.3		 16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6 2,560 0.136 J < 0.0422	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2 2,420 0.169 J < 0.0374	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18 1,250 0.368 0.0786 J	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560 501 30.5 1,800 < 0.145 < 0.045	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611 22.1 1,210 0.286 J < 0.0471	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7 1,330 0.154 J < 0.036	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2 1,300 0.237 J < 0.0346	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2 2,820 0.172 J 0.0715 J	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3 1,990 0.164 J 0.0359 J	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711 21 1,460 0.129 J < 0.0371	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3 1,540 < 0.124 < 0.0387	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5 2,500 < 0.135 < 0.042
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-7-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-07 77782-49-2 7440-22-4 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	 13 350 7.2 2.5 30 50 63 1600 30 3.9		15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6 2,560 0.136 J < 0.0422 < 86.1	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2 2,420 0.169 J < 0.0374 74.9 J	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18 1,250 0.368 0.0786 J 251	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,550 501 30.5 1,800 < 0.145 < 0.045 94.2 J	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611 22.1 1,210 0.286 J < 0.0471 < 73.3	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7 1,330 0.154 J < 0.036 < 72.4	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2 1,300 0.237 J < 0.0346 384	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2 2,820 0.172 J 0.0715 J 337	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3 1,990 0.164 J 0.0359 J 100 J	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5.040 711 21 1,460 0.129 J < 0.0371 103 J	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3 1,540 < 0.124 < 0.0387 156	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5 2,500 <0.135 <0.042 108 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-95-1 7439-95-1 7439-95-5 7440-02-0 7440-97 7782-99-2 7440-22-4 7440-23-5		- - 13 350 7.2 2.5 - 30 50 63 1600 30 3.9 2	 16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36 	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6 2,560 0.136 J < 0.0422 < 86.1 0.106	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2 2,420 0.169 J < 0.0374 74.9 J 0.1	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18 1,250 0.368 0.0786 J 251 0.221	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560 501 30.5 1,800 < 0.145 < 0.045 94.2 J 0.134	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611 22.1 1,210 0.286 J < 0.0471 < 73.3 0.154	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7 1,330 0.154 J < 0.036 < 72.4 0.0936	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2 1,300 0.237 J < 0.0346 384 0.0923	0.15 J 5.55 54.4 0.725 0.112 J 1.710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2 2,820 0.172 J 0.0715 J 337 0.132	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3 1,990 0.164 J 0.0359 J 100 J 0.0773 J	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711 21 1,460 0.129 J < 0.0371 103 J 0.0927	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3 1,540 < 0.124 < 0.0387 156 0.0774 J	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5 2,500 < 0.135 < 0.042 108 J 0.109
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver Sodium Thallium Vanadium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-88-4 7440-50-8 7439-95-4 7439-95-4 7439-95-7 7440-97 7782-49-2 7440-22-4 7440-22-0 7440-23-5 7440-28-0 7440-62-2		 -1 13 350 7.2 2.5 30 50 63 1600 30 3.9 2	 16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6 2,560 0.136 J < 0.0422 < 86.1 0.106 11.3	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2 2,420 0.169 J < 0.0374 74.9 J 0.1 22.6	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18 1,250 0.368 0.0786 J 251 0.221	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560 501 30.5 1,800 < 0.145 < 0.045 94.2 J 0.134 24.9	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611 22.1 1,210 0.286 J < 0.0471 < 73.3 0.154 22.9	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7 1,330 0.154 J < 0.036 < 72.4 0.0936 14.6	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2 1,300 0.237 J < 0.0346 384 0.0923 17.3	0.15 J 5.55 54.4 0.725 0.112 J 1,710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2 2,820 0.172 J 0.0715 J 337 0.132 17.6	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3 1,990 0.164 J 0.0359 J 100 J 0.0773 J 17.5	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711 21 1,460 0.129 J < 0.0371 103 J 0.0927 19.1	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3 1,540 < 0.124 < 0.0387 156 0.0774 J 17.1	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5 2,500 < 0.135 < 0.042 108 J 0.109 19.4
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-95-1 7439-95-1 7439-95-5 7440-02-0 7440-97 7782-99-2 7440-22-4 7440-23-5		- - 13 350 7.2 2.5 - 30 50 63 1600 30 3.9 2	 16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36 	15,200 < 0.135 6.82 23.2 0.746 0.14 J 15,900 8.75 12.3 9.76 25,600 11.5 8,490 470 22.6 2,560 0.136 J < 0.0422 < 86.1 0.106	13,800 0.133 J 5.4 75.4 0.627 0.0778 J 19,600 19.7 10.3 26.4 23,900 10.2 9,280 550 22.2 2,420 0.169 J < 0.0374 74.9 J 0.1	23,000 < 0.141 6.12 68 0.637 0.119 J 1,420 20.3 7.97 12.9 20,000 10.4 3,870 271 18 1,250 0.368 0.0786 J 251 0.221	20,800 < 0.131 10.1 102 0.798 0.138 J 1,670 26.9 15.8 28.8 32,800 14.7 6,560 501 30.5 1,800 < 0.145 < 0.045 94.2 J 0.134	< 0.115 5.43 53.4 0.619 0.0796 J 439 19.2 12.2 22.3 24,400 10.9 5,020 611 22.1 1,210 0.286 J < 0.0471 < 73.3 0.154	11,300 < 0.114 4.42 35.7 0.799 0.0468 J 23,400 12 10.5 13.7 23,000 9.41 9,120 355 19.7 1,330 0.154 J < 0.036 < 72.4 0.0936	14,100 0.116 J 6.37 53.7 0.582 0.134 J 1,430 14.6 10.7 19.8 23,200 23 4,790 320 23.2 1,300 0.237 J < 0.0346 384 0.0923	0.15 J 5.55 54.4 0.725 0.112 J 1.710 15.9 17.5 25.2 26,600 12.7 5,510 388 28.2 2,820 0.172 J 0.0715 J 337 0.132	11,900 < 0.13 4.39 55.2 0.503 0.0718 J 18,100 15.2 9.79 23.1 20,700 9.75 9,520 506 19.3 1,990 0.164 J 0.0359 J 100 J 0.0773 J	14,200 0.127 J 4.77 39.1 0.754 0.0827 J 847 14.5 10.8 17.3 26,600 9.03 5,040 711 21 1,460 0.129 J < 0.0371 103 J 0.0927	12,300 0.104 J 6.32 40.8 0.66 0.158 J 1,270 14.6 10.9 21.9 24,700 11.7 4,850 592 23.3 1,540 < 0.124 < 0.0387 156 0.0774 J	13,700 0.18 J 6.37 60.8 0.645 0.112 J 21,000 19.5 11.4 29.4 24,500 11.3 7,140 661 25.5 2,500 < 0.135 < 0.042 108 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

C: 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	OU1DSB08 11/12/2018	OU1DSB08 11/12/2018	OU1DSB10 11/13/2018	OU1DSB10 11/13/2018	OU1DSB10 11/13/2018	OU1DSB10 11/13/2018	OU1DSB11 11/13/2018	OU1DSB11 11/13/2018	OU1DSB11 11/13/2018	SWSL-74 10/31/2006	SWSL-75 10/31/2006	SWSL-76 10/31/2006	SWSL-77 10/31/2006
Field Sample ID Depth Interval	OU1DSB08-S-4.00- 4-6	OU1DSB08-S-6.00- 6-8	OU1DSB10-S-10.00- 10-12	OU1DSB10-S-2.00- 2-4	OU1DSB10-S-6.00- 6-8	OU1DSB10-SD-6.00- 6-8	OU1DSB11-S-14.00- 14-16	OU1DSB11-S-2.00- 2-4	OU1DSB11-S-6.00- 6-8	SWSL-74(7-9) 7-9	SWSL-75(12-14.5) 12-14.5	SWSL-76(4-12) 4-12	SWSL-77(8-10) 8-10
Sample Purpose Parameter Name	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG
latile Organic Compounds		<u> </u>	<u>'</u>	<u> </u>	<u>'</u>		<u> </u>	<u> </u>	<u>.</u>		<u></u>		
1 Dichloroethene			< 0.0004	< 0.0005	< 0.0004	< 0.0005				< 0.005	< 0.001	< 0.001	< 0.001
,1-Trichloroethane			< 0.0005	< 0.0006	< 0.0005	< 0.0006				< 0.005	< 0.001	< 0.001	< 0.001
1,2,2-Tetrachloroethane			< 0.0003	< 0.0004	< 0.0003	< 0.0004				< 0.005	< 0.001	< 0.001	< 0.001
1,2-Trichloroethane			< 0.0004	< 0.0005	< 0.0004	< 0.0005	-		-	< 0.005	< 0.001	< 0.001	< 0.001
,2-Trichlorotrifluoroethane (Freon 113)			< 0.0005	< 0.0006	< 0.0005	< 0.0006	-		-				
1-Dichloroethane			< 0.0004	0.0007 J	< 0.0004	< 0.0005				< 0.005	< 0.001	< 0.001	< 0.001
2.3-Trichlorobenzene			< 0.004	< 0.005	< 0.004	< 0.005	-		-				
2,4-Trichlorobenzene			< 0.004	< 0.005	< 0.004	< 0.005				< 0.18	< 0.041	< 0.041	< 0.038
2-Dibromo-3-chloropropane (DBCP)			< 0.0003	< 0.0004	< 0.0003	< 0.0004			-				
2-Dibromoethane			< 0.0003	< 0.0004	< 0.0003	< 0.0004			-				
2-Dichlorobenzene (o-Dichlorobenzene)			< 0.0003	0.003 J	< 0.0003	< 0.0004			-	0.22 J	0.16 J	< 0.041	< 0.038
2-Dichloroethane			< 0.0005	< 0.0006	< 0.0004	< 0.0006				< 0.005	< 0.001	< 0.001	< 0.001
2-Dichloropropane		-	< 0.0005	< 0.0006	< 0.0005	< 0.0005	-			< 0.005	< 0.001	< 0.001	< 0.001
		-											
3-Dichlorobenzene 4-Dichlorobenzene			< 0.0004 < 0.0003	< 0.0005 0.0007 J	< 0.0004 < 0.0003	< 0.0005 < 0.0004				< 0.18 < 0.18	< 0.041 < 0.041	< 0.041 < 0.041	< 0.038
													< 0.038
Butanone (Methyl ethyl ketone)		-	0.002 J	0.012	0.0009 J	0.001 J				< 0.022	< 0.005	< 0.005	< 0.005
Hexanone Mathyl 2 postopose			< 0.0009	< 0.0009	< 0.0008	< 0.001			-	< 0.016	< 0.004	< 0.004	< 0.003
Methyl-2-pentanone		-	< 0.0009	< 0.0009	< 0.0008	< 0.001			-	< 0.016	< 0.004	< 0.004	< 0.003
cetone			0.024	<u>0.13</u>	0.022	0.024				< 0.038	0.013 J	< 0.009	0.019 J
nzene		-	< 0.0004	0.002 J	< 0.0004	< 0.0005				< 0.003	< 0.0006	< 0.0006	< 0.0006
omochloromethane			< 0.0005	< 0.0006	< 0.0005	< 0.0006							
omodichloromethane			< 0.0003	< 0.0004	< 0.0003	< 0.0004				< 0.005	< 0.001	< 0.001	< 0.001
omoform		-	< 0.004	< 0.005	< 0.004	< 0.005			-	< 0.005	< 0.001	< 0.001	< 0.001
omomethane (Methyl bromide)		-	< 0.0006	< 0.0006	< 0.0006	< 0.0007	-		-	< 0.011	< 0.002	< 0.002	< 0.002
arbon disulfide		-	< 0.0005	0.0009 J	< 0.0005	< 0.0006	-		-	< 0.005	< 0.001	< 0.001	< 0.001
arbon Tetrachloride			< 0.0004	< 0.0005	< 0.0004	< 0.0005			-	< 0.005	< 0.001	< 0.001	< 0.001
nlorobenzene			< 0.0004	0.0006 J	< 0.0004	< 0.0005				< 0.005	< 0.001	< 0.001	< 0.001
nloroethane			< 0.0009	< 0.0009	< 0.0008	< 0.001				< 0.011	< 0.002	< 0.002	< 0.002
nloroform			< 0.0005	< 0.0006	< 0.0005	< 0.0006				< 0.005	< 0.001	< 0.001	< 0.001
nloromethane (Methyl chloride)			< 0.0005	< 0.0006	< 0.0005	< 0.0006				< 0.011	< 0.002	< 0.002	< 0.002
s-1,2-Dichloroethene			< 0.0004	0.001 J	< 0.0004	< 0.0005				< 0.005	< 0.001	< 0.001	< 0.001
s-1,3-Dichloropropene			< 0.0003	< 0.0004	< 0.0003	< 0.0004				< 0.005	< 0.001	< 0.001	< 0.001
clohexane			< 0.0004	< 0.0005	< 0.0004	< 0.0005							
bromochloromethane			< 0.0003	< 0.0004	< 0.0003	< 0.0004				< 0.005	< 0.001	< 0.001	< 0.001
chlorodifluoromethane (Freon 12)			< 0.0005	< 0.0006	< 0.0005	< 0.0006							
sopropyl ether			< 0.0004	< 0.0005	< 0.0004	< 0.0005				< 0.005	< 0.001	< 0.001	< 0.001
hyl-t-butylether			< 0.0004	< 0.0005	< 0.0004	< 0.0005				< 0.005	< 0.001	< 0.001	< 0.001
hylbenzene			< 0.0003	< 0.0004	< 0.0003	< 0.0004			-	0.016 J	0.002 J	< 0.001	< 0.001
propylbenzene			< 0.0003	< 0.0004	< 0.0003	< 0.0004							
p-Xylenes			< 0.0009	< 0.0009	< 0.0008	< 0.001							
ethyl acetate			< 0.0009	< 0.0009	< 0.0008	< 0.001							
ethyl-t-butyl ether		-	< 0.0004	< 0.0005	< 0.0004	< 0.0005	-	-	-	< 0.003	< 0.0006	< 0.0006	< 0.0006
ethylcyclohexane			< 0.0005	< 0.0006	< 0.0005	< 0.0006			_				
ethylene chloride (Dichloromethane)			< 0.002	< 0.002	< 0.002	< 0.002			_	0.014 J	0.003 J	< 0.004 J	0.002 J
(ylene			< 0.0003	< 0.0004	< 0.0003	< 0.0004							
rene			< 0.0003	< 0.0004	< 0.0003	< 0.0004				< 0.005	< 0.001	< 0.001	< 0.001
-Amyl methyl ether			< 0.0007	< 0.0007	< 0.0007	< 0.0008				< 0.005	< 0.001	< 0.001	< 0.001
tiary Butyl Alcohol			< 0.013	< 0.007	< 0.013	< 0.015				< 0.11	< 0.025	< 0.025	< 0.023
rachloroethene			< 0.0004	< 0.005	< 0.004	< 0.005				< 0.005	< 0.025	< 0.025	< 0.023
luene													
			< 0.0005	0.001 J	< 0.0005	< 0.0006			-	0.011 J	< 0.001	0.002 J	< 0.001
ns-1,2-Dichloroethene			< 0.0004	< 0.0005	< 0.0004	< 0.0005			-	< 0.005	< 0.001	< 0.001	< 0.001
ns-1,3-Dichloropropene		-	< 0.0003	< 0.0003	< 0.0003	< 0.0003			-	< 0.005	< 0.001	< 0.001	< 0.001
chloroethene (Trichloroethylene)			< 0.0004	0.0007 J	< 0.0004	< 0.0005				< 0.005	< 0.001	< 0.001	< 0.001
chlorofluoromethane (Freon 11)			< 0.0006	< 0.0006	< 0.0006	< 0.0007			-				
nyl chloride (Chloroethene)			< 0.0005	< 0.0006	< 0.0005	< 0.0006			-	< 0.005	< 0.001	< 0.001	< 0.001
lene (total)			< 0.0009	< 0.0009	< 0.0008	< 0.001				0.18	0.007	0.002 J	0.002 J



Sar Field S		OU1DSB08 11/12/2018 OU1DSB08-S-4.00-	OU1DSB08 11/12/2018 OU1DSB08-S-6.00-	OU1DSB10 11/13/2018 OU1DSB10-S-10.00-	OU1DSB10 11/13/2018 OU1DSB10-S-2.00-	OU1DSB10 11/13/2018 OU1DSB10-S-6.00-	OU1DSB10 11/13/2018 OU1DSB10-SD-6.00-	OU1DSB11 11/13/2018 OU1DSB11-S-14.00-	OU1DSB11 11/13/2018 OU1DSB11-S-2.00-	OU1DSB11 11/13/2018 OU1DSB11-S-6.00-	SWSL-74 10/31/2006 SWSL-74(7-9)	SWSL-75 10/31/2006 SWSL-75(12-14.5)	SWSL-76 10/31/2006 SWSL-76(4-12)	SWSL-77 10/31/2006 SWSL-77(8-10)
	th Interval e Purpose	4-6 REG	6-8 REG	10-12 REG	2-4 REG	6-8 REG	6-8 FD	14-16 REG	2-4 REG	6-8 REG	7-9 REG	12-14.5 REG	4-12 REG	8-10 REG
Parameter Name														
mivolatile Organic Compounds				1		1		<u> </u>						
2,4,5-Tetrachlorobenzene		< 0.018	< 0.019	< 0.018	< 0.094	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018				
I-Dioxane		< 0.11	< 0.11	< 0.11	< 0.56	< 0.11	< 0.11	< 0.1	< 0.11	< 0.11				
,4,6-Tetrachlorophenol		< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	< 0.076	< 0.074				
5,5-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
I,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
-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
I-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
I-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
4-Dinitrotoluene 6-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
		< 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
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
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
Methyl-Naphthalene		< 0.011	< 0.011	< 0.011	0.79	< 0.011	< 0.011	< 0.01	0.014 J	< 0.011	<u>37</u>	0.47	0.043 J	0.08 J
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
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
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
'-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
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
6-Dinitro-2-methylphenol (4,6-Dinitro-o-	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
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
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
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
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
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
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
enaphthene		< 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
enaphthylene		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
etophenone		< 0.026	< 0.026	< 0.025	< 0.13	< 0.026	< 0.026	< 0.024	< 0.027	< 0.026				
thracene		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
razine		< 0.037	< 0.037	< 0.036	< 0.19	< 0.038	< 0.037	< 0.035	< 0.038	< 0.037				
nzaldehyde		< 0.073	< 0.074	< 0.072	< 0.38	< 0.075	< 0.075	< 0.07	0.076 J	< 0.074				
nzo(a)anthracene		0.019	< 0.004	< 0.004	<u>4.4</u>	< 0.004	< 0.004	< 0.003	0.2	< 0.004	1	0.23	0.13 J	0.44
enzo(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
enzo(b)fluoranthene		0.03	< 0.004	< 0.004	<u>4.1</u>	< 0.004	< 0.004	< 0.003	0.24	< 0.004	0.3 J	0.13 J	0.22	0.38
enzo(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
nzo(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
s(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
s(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
s(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
s(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
itylbenzylphthalate		< 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
prolactam		< 0.037	< 0.037	< 0.036	< 0.19	< 0.038	< 0.037	< 0.035	< 0.038	< 0.037				
arbazole		< 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
nrysene		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
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
n-octylphthalate		< 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
benz(a,h)anthracene		< 0.004	< 0.004	< 0.004	0.48	< 0.004	< 0.004	< 0.003	0.037	< 0.004	< 0.18	0.043 J	< 0.041	0.1 J
penzofuran		< 0.018	< 0.019	< 0.018	1.3	< 0.019	< 0.019	< 0.017	0.023 J	< 0.018	1.8	0.64	< 0.041	0.37
ethylphthalate		< 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
methyl phthalate		< 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
phenyl (Biphenyl, Phenyl benzene)		< 0.018	< 0.019	< 0.018	0.2 J	< 0.019	< 0.019	< 0.017	< 0.019	< 0.018				
uoranthene		0.045	< 0.004	< 0.004	11	< 0.004	< 0.004	< 0.003	0.45	< 0.004	1.3	0.44	0.19 J	0.78
uorene		< 0.004	< 0.004	< 0.004	1.6	< 0.004	< 0.004	< 0.003	0.036	< 0.004	6.4	1.5	< 0.041	0.95
exachlorobenzene		< 0.004	< 0.004	< 0.004	< 0.019	< 0.004	< 0.004	< 0.003	< 0.004	< 0.004	< 0.18	< 0.041	< 0.041	< 0.038
xachlorobutadiene		< 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
xachlorocyclopentadiene		< 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
xachloroethane		< 0.037	< 0.037	< 0.036	< 0.19	< 0.038	< 0.037	< 0.035	< 0.038	< 0.037	< 0.18	< 0.041	< 0.041	< 0.038
leno(1,2,3-cd)Pyrene		0.012 J	< 0.007	< 0.007	1.6	< 0.008	< 0.007	< 0.007	0.085	< 0.007	0.21 J	0.094 J	0.094 J	0.14 J
phorone		< 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
Nitrosodi-n-propylamine		< 0.022	< 0.019	< 0.022	< 0.11	< 0.019	< 0.019	< 0.017	< 0.023	< 0.022	< 0.18	< 0.041	< 0.041	< 0.038
Nitrosodiphenylamine (Diphenylamine)	,	< 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
phthalene	.,		< 0.019		1.6			< 0.017	0.019	< 0.018	2.9	< 0.041	< 0.041	< 0.038
trobenzene		< 0.007 < 0.029	< 0.007	< 0.007 < 0.029	< 0.15	< 0.008 < 0.03	< 0.007 < 0.03	< 0.028	< 0.024	< 0.007	< 0.18	< 0.041	< 0.041	< 0.038
Chloro-m-cresol		< 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
entachlorophenol		< 0.04	< 0.041	< 0.039	< 0.21	< 0.041	< 0.041	< 0.038	< 0.042	< 0.04	< 0.92	< 0.21	< 0.2	< 0.19
nenanthrene		0.025	< 0.004	< 0.004	13	< 0.004	< 0.004	< 0.003	0.35	< 0.004	14	3.2	0.068 J	1.6
enol		< 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
yrene		0.04	< 0.004	< 0.004	9.7	< 0.004	< 0.004	< 0.003	0.4	< 0.004	9.6	2.2	0.26	2.7



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	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
Parameter Nar	ame		<u> </u>	<u> </u>	<u> </u>							<u> </u>		
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					-									
Werais											44.200	14,700		44.700
Metals Aluminum		15 200	13 300	12 600	14 700	11 700	13 000	9 690	14.300	11 100			20,000	
Aluminum		15,200 < 0.116	13,300 < 0.128	12,600 0 147 J	14,700 0.236.J	11,700 0.129.J	13,000 < 0.122	9,690 0.168.J	14,300 1.51	11,100	11,300 < 1.00		20,000	14,700 < 0.978
Aluminum 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
Aluminum Antimony Arsenic		< 0.116 5.36	< 0.128 5.81	0.147 J 6.5	0.236 J <u>25.6</u>	0.129 J 5.57	< 0.122 5.44	0.168 J 5.11	1.51 <u>35.4</u>	< 0.12 5.35	< 1.00 5.3	< 1.06 7.14	< 1.06 14.5	< 0.978 5.3
Aluminum		< 0.116 5.36 43.2	< 0.128	0.147 J 6.5 43.1	0.236 J <u>25.6</u> 64.6	0.129 J 5.57 39.5	< 0.122 5.44 37.1	0.168 J 5.11 37.6	1.51 <u>35.4</u> 47.2	< 0.12 5.35 27.5	< 1.00 5.3 32.5	< 1.06 7.14 38	< 1.06 14.5 64.4	< 0.978 5.3 38.5
Aluminum Antimony Arsenic Barium		< 0.116 5.36	< 0.128 5.81 45.5	0.147 J 6.5	0.236 J <u>25.6</u>	0.129 J 5.57	< 0.122 5.44	0.168 J 5.11	1.51 <u>35.4</u>	< 0.12 5.35	< 1.00 5.3	< 1.06 7.14	< 1.06 14.5	< 0.978 5.3
Aluminum Antimony Arsenic Barium Beryllium		< 0.116 5.36 43.2 0.649	< 0.128 5.81 45.5 0.676 0.127 J	0.147 J 6.5 43.1 0.626 0.199	0.236 J 25.6 64.6 0.723 0.378	0.129 J 5.57 39.5 0.59 0.159 J	< 0.122 5.44 37.1 0.597 0.141 J	0.168 J 5.11 37.6 0.448 0.0847 J	1.51 <u>35.4</u> 47.2 0.723	< 0.12 5.35 27.5 0.618 0.0986 J	< 1.00 5.3 32.5 0.657 < 0.0721	< 1.06 7.14 38 0.692	< 1.06 14.5 64.4 0.694 < 0.0765	< 0.978 5.3 38.5 0.693 < 0.0704
Aluminum Antimony Arsenic Barium Beryllium Cadmium		< 0.116 5.36 43.2 0.649 0.113 J 944	< 0.128 5.81 45.5 0.676 0.127 J 1,000	0.147 J 6.5 43.1 0.626 0.199 8,400	0.236 J 25.6 64.6 0.723 0.378 7,440	0.129 J 5.57 39.5 0.59 0.159 J 1,740	< 0.122 5.44 37.1 0.597 0.141 J 1,450	0.168 J 5.11 37.6 0.448 0.0847 J 20,800	1.51 35.4 47.2 0.723 0.206 6,110	< 0.12 5.35 27.5 0.618 0.0986 J 1,450	< 1.00 5.3 32.5 0.657 < 0.0721 1,190	< 1.06 7.14 38 0.692 < 0.0762 996	< 1.06 14.5 64.4 0.694 < 0.0765 720	< 0.978 5.3 38.5 0.693 < 0.0704 1,750
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium		< 0.116 5.36 43.2 0.649 0.113 J	< 0.128 5.81 45.5 0.676 0.127 J	0.147 J 6.5 43.1 0.626 0.199	0.236 J 25.6 64.6 0.723 0.378	0.129 J 5.57 39.5 0.59 0.159 J	< 0.122 5.44 37.1 0.597 0.141 J	0.168 J 5.11 37.6 0.448 0.0847 J	1.51 35.4 47.2 0.723 0.206	< 0.12 5.35 27.5 0.618 0.0986 J	< 1.00 5.3 32.5 0.657 < 0.0721	< 1.06 7.14 38 0.692 < 0.0762	< 1.06 14.5 64.4 0.694 < 0.0765	< 0.978 5.3 38.5 0.693 < 0.0704
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4	1.51 35.4 47.2 0.723 0.206 6,110 21.9	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4	<1.06 7.14 38 0.692 <0.0762 996 15.6	< 1.06 14.5 64.4 0.694 < 0.0765 720 18.3	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700 9.13	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9	<0.978 5.3 38.5 0.693 <0.0704 1,750 17.9 12.5 27.3 29,000 12.2
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4,420	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000 12.2 5,930
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700 9.13	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000 12.2
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850 477 21.4	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950 644 23.1	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675 25.4	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7 19,700 531 13.8	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120 548 24.1	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5 9,570 482 18.7	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430 511 20.4	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4,420 215 16	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310 328 20.3	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808 23.8	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000 12.2 5,930 377 25.4
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850 477 21.4	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950 644 23.1 1,660	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675 25.4	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7 19,700 531 13.8 1,810	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541 22.7	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120 548 24.1 1,690	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5 9,570 482 18.7 1,270	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528 19	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430 511 20.4 1,170	<1.00 5.3 32.5 0.657 <0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4,420 215 16 1,240	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310 328 20.3 1,440	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808 23.8 1,260	<0.978 5.3 38.5 0.693 <0.0704 1,750 17.9 12.5 27.3 29,000 12.2 5,930 377 25.4 1,920
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850 477 21.4	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950 644 23.1	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675 25.4	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7 19,700 531 13.8	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120 548 24.1	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5 9,570 482 18.7	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430 511 20.4	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4,420 215 16	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310 328 20.3	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808 23.8	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000 12.2 5,930 377 25.4
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850 477 21.4 1,770 < 0.145	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950 644 23.1 1,660 0.114 J	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675 25.4 1,680 0.193 J	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7 19,700 531 13.8 1,810 0.216 J	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541 22.7 1,360 < 0.109	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120 548 24.1 1,690 < 0.124	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5 9,570 482 18.7 1,270 0.148 J	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528 19 1,420 0.297 J	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430 511 20.4 1,170 < 0.105	<1.00 5.3 32.5 0.657 <0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4.420 215 16 1,240 <1.09	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310 328 20.3 1,440 1.24 J	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808 23.8 1,260 <1.15	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000 12.2 5,930 377 25.4 1,920 < 1.06
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850 477 21.4 1,770 < 0.145 < 0.045	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950 644 23.1 1,660 0.114 J < 0.0303	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675 25.4 1,680 0.193 J 0.0394 J	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7 19,700 531 13.8 1,810 0.216 J < 0.0408	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541 22.7 1,360 < 0.109 < 0.0338	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120 548 24.1 1,690 < 0.124 < 0.0386	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5 9,570 482 18.7 1,270 0.148 J 0.0297 J	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528 19 1,420 0.297 J < 0.0372	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430 511 20.4 1,170 < 0.105 < 0.0327	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4,420 215 16 1,240 < 1.09 < 0.189	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310 328 20.3 1,440 1.24 J <0.199	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808 23.8 1,260 <1.15 <0.200	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000 12.2 5,930 377 25.4 1,920 < 1.06 < 0.184
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium		<0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850 477 21.4 1,770 <0.145 <0.045 <73.8 0.116	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950 644 23.1 1,660 0.114 J < 0.0303 112 J	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675 25.4 1,680 0.193 J 0.0394 J 178	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7 19,700 531 13.8 1,810 0.216 J < 0.0408 < 91.4	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541 22.7 1,360 < 0.109 < 0.0338 233 0.0854	< 0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120 548 24.1 1,690 < 0.124 < 0.0386 235	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5 9,570 482 18.7 1,270 0.148 J 0.0297 J 68.5 J 0.0437 J	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528 19 1,420 0.297 J < 0.0372 < 84.7	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430 511 20.4 1,170 < 0.105 < 0.0327 83.3 J	<1.00 5.3 32.5 0.657 <0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4,420 215 16 1,240 <1.09 <0.189 58.1 J <1.48	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310 328 20.3 1,440 1.24 J <0.199 83.9 J <1.56	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808 23.8 1,260 <1.15 <0.200 44.2 J <1.57	<0.978 5.3 38.5 0.693 <0.0704 1.750 17.9 12.5 27.3 29,000 12.2 5,930 377 25.4 1,920 <1.06 <0.184 47.9 J <1.44
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Serium Arsenic Arsenic Barium Barium Arsenic Barium B		< 0.116 5.36 43.2 0.649 0.113 J 944 14.4 10.5 24 25,800 12.5 4,850 477 21.4 1,770 < 0.145 < 0.045 < 73.8	< 0.128 5.81 45.5 0.676 0.127 J 1,000 16.9 10.5 25.8 26,300 12.1 4,950 644 23.1 1,660 0.114 J < 0.0303 112 J 0.0878	0.147 J 6.5 43.1 0.626 0.199 8,400 23.9 11.4 27.3 25,600 10.8 5,680 675 25.4 1,680 0.193 J 0.0394 J 178 0.104	0.236 J 25.6 64.6 0.723 0.378 7,440 16.5 7.58 22 20,500 50.7 19,700 531 13.8 1,810 0.216 J < 0.0408 < 91.4 0.127	0.129 J 5.57 39.5 0.59 0.159 J 1,740 15.9 10.3 23.6 23,600 10.3 4,870 541 22.7 1,360 < 0.109 < 0.0338 233	<0.122 5.44 37.1 0.597 0.141 J 1,450 15.1 9.82 23.9 25,500 11.2 5,120 548 24.1 1,690 <0.124 <0.0386 235 0.103	0.168 J 5.11 37.6 0.448 0.0847 J 20,800 13.4 8.32 18.5 21,500 8.5 9,570 482 18.7 1,270 0.148 J 0.0297 J 68.5 J	1.51 35.4 47.2 0.723 0.206 6,110 21.9 9.6 28.4 24,000 138 11,400 528 19 1,420 0.297 J < 0.0372 < 84.7 0.0967	< 0.12 5.35 27.5 0.618 0.0986 J 1,450 10.6 10.6 17.5 22,900 10.4 4,430 511 20.4 1,170 < 0.105 < 0.0327 83.3 J 0.0691 J	< 1.00 5.3 32.5 0.657 < 0.0721 1,190 11.4 8.9 21.6 22,700 9.13 4,420 215 16 1,240 < 1.09 < 0.189 58.1 J	<1.06 7.14 38 0.692 <0.0762 996 15.6 10.4 24.6 26,700 11.2 5,310 328 20.3 1,440 1.24 J <0.199 83.9 J	<1.06 14.5 64.4 0.694 <0.0765 720 18.3 12 27 30,000 17.9 5,760 808 23.8 1,260 <1.15 <0.200 44.2 J	< 0.978 5.3 38.5 0.693 < 0.0704 1,750 17.9 12.5 27.3 29,000 12.2 5,930 377 25.4 1,920 < 1.06 < 0.184 47.9 J

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

C: 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



ocation ID				OU1DSB03	OU1DSB04	OU1DSB05	OU1DSB06	OU1DSB08	OU1DSB10	OU1DSB11	SWMW-63	SWMW-63	SWMW-63	SWMW-128
ample Date		NIVE TOCK	USEPA	11/16/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/16/2018	1/10/2007	10/16/2008	6/11/2013	3/24/2009
eld Sample ID	Parameter Code	NYS TOGS GWQS	Tapwater RSL	OU1DSB03-W-6 00-181116	OU1DSB04-W-6 00-181115	OUIDSB05-W-6 00-18111	OU1DSB06-W-6 00-181115	OUIDSB08-W-6 00-18111	5 OU1DSB10-W-3 00-18111	5 OU1DSB11-W-6.00-181116	SWMW63011007	SWMW-63(10-16-08)	SWMW-63(061113)	SWMW-128(3-24-09)
		020	2019											
ample Purpose				REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
arameter Name Diatile Organic Compounds			<u> </u>	<u> </u>			<u> </u>	<u> </u>	_			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-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
1,2,2-Tetrachloroethane	79-34-5	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	<1	<1	<1
,1,2-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
,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	_	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				
,1-Dichloroethane	75-34-3	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 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				
,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
,2-Dibromo-3-chloropropane (DBCP)	96-12-8	-	0.00033	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3				
,2-Dibromoethane	106-93-4		0.0075	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				
,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
,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
,2-Dichloropropane	78-87-5	1		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 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
,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
-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
-Hexanone	591-78-6	50	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 3	< 3	< 3	< 3
-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
romochloromethane	74-97-5	-	83	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				
romodichloromethane	75-27-4	50	-	< 0.2	< 0.2	< 0.2	0.3 J	< 0.2	< 0.2	< 0.2	<1	<1	<1	< 1
dromoform (2.4 dr.	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 75-00-3	5	-	< 0.2	< 0.2	< 0.2 < 0.2	< 0.2	< 0.2 < 0.2	< 0.2	< 0.2 < 0.2	< 0.8	< 0.8	< 0.8	< 0.8
Chloroethane Chloroform	67-66-3	7		< 0.2 < 0.2	< 0.2 < 0.2	< 0.2	< 0.2	< 0.2	< 0.2 < 0.2	< 0.2	< 1 < 0.8	< 1 < 0.8	< 1 < 0.8	< 1 < 0.8
Chloromethane (Methyl chloride)	74-87-3	5	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 0.6	< 0.6	< 0.6
is-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
thylbenzene	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
sopropylbenzene	98-82-8	-	450	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				
n,p-Xylenes	XYLENES-MP	-		<1	< 1	< 1	<1	< 1	< 1	< 1				
lethyl acetate	79-20-9	-	20000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				
lethyl-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
lethylcyclohexane	108-87-2	-	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				
lethylene chloride (Dichloromethane)	75-09-2	5		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 2	< 2	< 2	< 2
-Xylene	95-47-6	-	190	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4				
tyrene	100-42-5	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	<1	< 1	<1
rt-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
ertiary Butyl Alcohol	75-65-0	-	-	< 12	< 12	< 12	< 12	< 12	< 12	< 12	< 10	< 10	< 10	< 10
etrachloroethene	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
oluene	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
ans-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
ans-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
ichloroethene (Trichloroethylene)	79-01-6	5	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1
richlorofluoromethane (Freon 11)	75-69-4	5	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2		-		
(inyl chloride (Chloroethene)	75-01-4	2	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	<1	< 1	< 1
(ylene (total)	1330-20-7	5		< 1	<1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

B-2 OU-1D Groundwater Data.xlsx



Location ID				OU1DSB03	OU1DSB04	OU1DSB05	OU1DSB06	OU1DSB08	OU1DSB10	OU1DSB11	SWMW-63	SWMW-63	SWMW-63	SWMW-128
Sample Date		NYS TOGS	USEPA	11/16/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/16/2018	1/10/2007	10/16/2008	6/11/2013	3/24/2009
ield Sample ID	Parameter Code	GWQS	Tapwater RSL 2019	OU1DSB03-W-6.00-181116	OU1DSB04-W-6.00-1811	115 OU1DSB05-W-6.00-18111	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				REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
Semivolatile Organic Compounds 1,2,4,5-Tetrachlorobenzene	05.04.2		1 - 4 -	0.5	0.5	0.5	0.5	0.5	0.5	0.5			l e e	
1,4-Dioxane	95-94-3 123-91-1		1.7 0.46	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 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 2,4-Dinitrophenol	105-67-9 51-28-5	50 10		< 3 < 15	< 3 < 14	< 3 < 14	< 3 < 14	< 3 < 14	< 3	< 3 < 14	< 3	< 3	< 0.5	< 3 < 19
2,4-Dinitrotoluene	121-14-2	5		<15	< 14	<14	<14	<14	< 15 < 1	<14	< 20 < 1	< 20 < 1	< 10 < 1	<19
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) 2-Nitrophenol (o-Nitrophenol)	88-74-4 88-75-5	5 1	-	< 2 < 3	< 2 < 3	< 2 < 3	< 2 < 3	< 2 < 3	< 2 < 3	< 2	< 1 < 1	<1	< 0.5 < 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-Chlorophenyl phenyl ether	106-47-8 7005-72-3	5		< 4 < 0.5	< 4 < 0.5	< 4 < 0.5	< 4 < 0.5	< 4 < 0.5	< 4 < 0.5	< 4 < 0.5	< 1 < 2	< 1 < 2	< 0.5 < 0.5	< 1
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 Anthracene	98-86-2 120-12-7		1900	< 4	< 4	< 4	< 4	< 4	< 4	< 4				
Atrazine	1912-24-9	50 	0.3	< 0.1 < 2	< 0.1 < 2	< 0.1 < 2	< 0.1 < 2	< 0.1 < 2	< 0.1 < 2	< 0.1 < 2	<1	<1	< 0.1	< 1
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 Benzo(k)fluoranthene	191-24-2 207-08-9	0.002		< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 1 < 1	<1	< 0.1 < 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 Caprolactam	85-68-7	50	9900	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbazole	105-60-2 86-74-8		9900	< 5 < 0.5	< 5 < 0.5	< 5 < 0.5	< 5 < 0.5	< 5 < 0.5	< 5 < 0.5	< 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 Diethylphthalate	132-64-9 84-66-2	 50	7.9	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 0.5 < 2	< 1 < 2	< 1 < 2	< 0.5 < 2	< 1
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
Hexachlorocyclopentadiene Hexachlorocyclopentadiene	87-68-3 77-47-4	0.5 5	-	< 0.5 < 5	< 0.5 < 5	< 0.5 < 5	< 0.5 < 5	< 0.5 < 5	< 0.5 < 5	< 0.5 < 5	< 1 < 5	< 1 < 5	< 0.5 < 5	< 1 < 5
Hexachloroethane	67-72-1	5 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	<u></u>	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 Nitrobenzene	91-20-3 98-95-3	10 0.4	-	< 0.1 < 0.5	< 0.1 < 0.5	< 0.1 < 0.5	< 0.1 < 0.5	< 0.1 < 0.5	< 0.1 < 0.5	< 0.1 < 0.5	< 1 < 1	<1	< 0.1 < 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

B-2 OU-1D Groundwater Data.xlsx



Location ID				OU1DSB03	OU1DSB04	OU1DSB05	OU1DSB06	OU1DSB08	OU1DSB10	OU1DSB11	SWMW-63	SWMW-63	SWMW-63	SWMW-128
Sample Date		NYS TOGS	USEPA	11/16/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/15/2018	11/16/2018	1/10/2007	10/16/2008	6/11/2013	3/24/2009
Field Sample ID	Parameter Code	GWQS	Tapwater RSL 2019	OU1DSB03-W-6.00-181116	OU1DSB04-W-6.00-18111	5 OU1DSB05-W-6.00-18111	5 OU1DSB06-W-6.00-18111	5 OU1DSB08-W-6.00-18111	5 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			2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
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 25	-	455	2 J	3.1	3.9	161	204	215	21	< 6.9	< 5.1	< 6.9
Lead (Dissolved)	7439-92-1		-	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1				
Magnesium Magnesium (Dissolved)	7439-95-4 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
Manganese	7439-96-5	35,000 300	-	19,700 29,500	14,300 63.9	16,700 1,050	14,200 323	12,100 14,200	16,100 14,300	14,100	2,700	2.000	15.8	
Manganese (Dissolved)	7439-96-5	300		29,500	17.7	1,050	323 41.7		14,300 967	4,130 156	2,700	3,690	15.8	713
Nickel	7439-96-5	100		580	2.7 J	3.6 J	5.7	380 211	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		< 5.6	< 1.1 	6.2 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			4,090	2,320
Selenium	7782-49-2	10	_	2.5	< 0.65	0.76 J	< 0.65	0.84 J	1,320	< 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

B-2 OU-1D Groundwater Data.xlsx 3/6



Location ID				SWMW-128	SWMW-128	SWMW-128	SWMW-129	SWMW-129	SWMW-129	SWMW-129
Sample Date		NYS TOGS	USEPA	5/25/2010	10/18/2012	6/11/2013	3/24/2009	5/25/2010	10/18/2012	6/11/2013
Field Sample ID	Parameter Code	GWQS	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				REG	REG	REG	REG	REG	REG	REG
Parameter Name										
Volatile Organic Compounds		<u> </u>								
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

B-2 OU-1D Groundwater Data.xlsx



Location ID				SWMW 129	SWMW 429	SWMW 429	SWMW 420	SWMW 420	SWMW 420	SWMW 120
Location ID Sample Date			USEPA	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
	Parameter Code	NYS TOGS GWQS	Tapwater RSL							
Field Sample ID	Farameter Code	GWQS	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				REG	REG	REG	REG	REG	REG	REG
Parameter Name 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 2,6-Dinitrotoluene	121-14-2 606-20-2	5 5		< 1 < 1	< 1 < 0.5	< 1 < 0.5	< 1	< 0.9 < 0.9	< 0.9 < 0.5	< 1 < 0.5
2-Chloronaphthalene	91-58-7	10	-	< 2	< 0.5	< 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	<u>-</u>	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	<u>-</u>	-	< 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) 4-Nitroaniline	106-44-5 100-01-6	1 		< 2 < 1	< 0.5 < 0.5	< 0.5 < 0.5	< 2 < 1	< 2 < 0.9	< 0.5 < 0.5	< 0.5 < 0.5
4-Nitrophenol	100-01-6	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 bis(2-Chloroethyl) ether	111-91-1 111-44-4	5 1		< 1 < 1	< 0.5 < 0.5	< 0.5 < 0.5	< 1	< 0.9 < 0.9	< 0.5 < 0.5	< 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	0.03	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Diphenyl (Biphenyl, Phenyl benzene) Fluoranthene	92-52-4 206-44-0	 50	0.83	 <1	< 0.1	< 0.1	< 1	< 0.9	< 0.09	 < 0.1
Fluoranthene	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 50		< 3	<1	<1	< 3	< 3	< 0.9	<1
Phenanthrene Phenol	85-01-8	50 1	-	<1	< 0.1	< 0.1	<1	< 0.9	< 0.09	< 0.1
Pyrene	108-95-2 129-00-0	50		< 1 < 1	< 0.5 0.1 J	< 0.5 < 0.1	<1	< 0.9 < 0.9	< 0.5 0.1 J	< 0.5 < 0.1
i yiono	123-00-0	JU		< I	U. I J	< 0.1	<u> </u>	< ∪.9	U.1 J	< ∪.1

B-2 OU-1D Groundwater Data.xlsx



Location ID Sample Date		NYS TOGS	USEPA	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	GWQS	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			2000	REG	REG	REG	REG	REG	REG	REG
Parameter Name										
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						i		
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	-	39,600					34,400	
Thallium	7440-23-3	0.5	_	< 14.0	< 5.7	< 5.7	< 14.0	< 14.0	< 5.7	< 5.7
Thallium (Dissolved)	7440-28-0	0.5		< 14.0	< 5.7	< 5.7	< 14.0	< 14.0	< 5.7	< 5.7
Vanadium	7440-62-2	U.5 	86	5.6	34.2		6.8	< 2.5	4.5 J	< 1.3
Vanadium (Dissolved)	7440-62-2		86	5.6	34.2	< 1.3 	6.8 	< 2.5 	4.5 J	< 1.3
Zinc	7440-62-2 7440-66-6	2000	86	33.8	137	4.8 J	23	13.3 J	15.0 J	2.7 J
Zinc (Dissolved)	7440-66-6						23		15.0 J	2.7 J
		2000	-							
Mercury (Dissahred)	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

B-2 OU-1D Groundwater Data.xlsx 6/6



Location I Sample Da Field Sample I Depth Interv							OU1EESB01 5/23/2017		OU1EESB03	OU1EESB04	OU1EESB05	OU1EESB06	OU1EESB07	OU1EESB08	OU1EESB09	5/23/2017	OU1EESB11
	ID						0/20/2011	OU1EESB02 5/23/2017 170523	5/24/2017 170524	6/1/2017	6/1/2017 170601	5/31/2017 170531	5/31/2017 170531	5/23/2017 170523	5/23/2017		5/24/2017
Depth Interv				Unrestricted			170523			170601					170523	170523	170524
				Use Soil		5-6.8(b) & CP·	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17
Sample Purpos Parameter Name	se Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup	375-6.8(b) & CP- 51 51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
nivolatile Organic Compounds	Code	C1-311 00	OI-SITER	Objectives	31 Residential	Restricted		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		_ <u> </u>	<u> </u>
.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-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
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
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
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
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
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
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
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
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
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
-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
-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
-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
-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
-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'-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
-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		-			-		< 0.2	< 0.21	< 0.29	< 0.28	< 0.24	< 0.28	< 0.27	< 0.22	< 0.19	< 1	< 0.3
1-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
I-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
I-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
I-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
-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
-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
cenaphthene	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
cenaphthylene	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
cetophenone	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
nthracene	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	<u>1.7</u>	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	<u>3.5</u>	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
is(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
is(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
ois(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
ois(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	< 0.075	< 0.41	< 0.12
Butylbenzylphthalate	85-68-7	122			100		< 0.078	< 0.086	< 0.12	< 0.11	< 0.095	< 0.11	< 0.11	< 0.089	< 0.075	< 0.41	< 0.12
Caprolactam	105-60-2	-			-		< 0.039	< 0.043	< 0.058	< 0.056	< 0.047	< 0.055	< 0.053	< 0.045	< 0.038	< 0.21	< 0.060
Carbazole	86-74-8	-			-		0.19	0.077	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	0.091	< 0.1	< 0.03
Chrysene	218-01-9	1		1	1 100	3.9	2.1	0.6	0.026 J	0.044	0.018 J	0.044	0.049	0.052	0.51	0.024 J	0.12
Di-n-butylphthalate	84-74-2 117-84-0	8.1 120	0.01		100	-	< 0.078	< 0.086	< 0.12	< 0.11	< 0.095	< 0.11 < 0.11	< 0.11	< 0.089	< 0.075	< 0.41	< 0.12
bi-n-octylphthalate bibenz(a,h)anthracene	117-84-0 53-70-3	120	-	0.33	100 0.33	0.33	< 0.078 0.43	< 0.086 0.11	< 0.12 < 0.006	< 0.11 < 0.006	< 0.095 < 0.005	< 0.11 0.007 J	< 0.11 0.008 J	< 0.089 0.009 J	< 0.075 0.1	< 0.41 < 0.02	< 0.12 0.024 J
bibenz(a,n)anthracene bibenzofuran				0.33 7	0.33	59											
vicenzoruran viethylphthalate	132-64-9 84-66-2	6.20 7.1	100		14	59	0.026 J < 0.078	< 0.021 < 0.086	< 0.029 < 0.12	< 0.028 < 0.11	< 0.024 < 0.095	< 0.028 < 0.11	< 0.027 < 0.11	< 0.022 < 0.089	0.035 J < 0.075	< 0.1 < 0.41	< 0.03 < 0.12
inethyl phthalate	131-11-3	27	200		100	-	< 0.078	< 0.086		< 0.11	< 0.095	< 0.11	< 0.11	< 0.089	< 0.075	< 0.41	< 0.12
· · ·	92-52-4		60		100	-		< 0.086 < 0.021	< 0.12 < 0.029	< 0.11		< 0.11	< 0.11 < 0.027	< 0.089	< 0.075	< 0.41	< 0.12 < 0.030
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4 206-44-0	1000	0 0	100			< 0.020	< 0.021 1.1	0.029	0.028	< 0.024	0.028	0.027		< 0.019	< 0.10 0.034 J	0.030
luoranthene	86-73-7	386	30	30	100	100 100	3.3 0.049	0.033	< 0.032	< 0.067	0.027 < 0.005	< 0.006		0.085	0.058	0.034 J < 0.02	< 0.006
exachlorobenzene	118-74-1	1.4		0.33	100 0.33	1.2		< 0.004	< 0.006	< 0.006		< 0.006	< 0.005 < 0.005	< 0.004 < 0.004	< 0.004	< 0.02	< 0.006
exachlorobutadiene	87-68-3	1.4		0.33	0.33	1.2	< 0.004 < 0.02	< 0.004	< 0.006	< 0.006	< 0.005 < 0.024	< 0.006	< 0.005	< 0.004	< 0.004	< 0.02	< 0.006
exachlorocyclopentadiene	87-68-3 77-47-4	-	10		_	-	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.19	< 0.1	< 0.03
exachlorocyclopentadiene	67-72-1	-				-	< 0.23	< 0.043	< 0.058	< 0.28	< 0.24	< 0.28	< 0.27	< 0.22	< 0.19	< 0.21	< 0.06
deno(1,2,3-cd)Pyrene	193-39-5	8.2		0.5	0.5	0.5	< 0.039 1.5	0.34	< 0.006	0.019 J	0.047 0.01 J	0.023 J	0.026 J	0.034	0.32	0.023 J	0.072
ophorone	78-59-1	4.4		0.5	100	0.5	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
·	621-64-7	4.4	-		100	-	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
I-Nitrosodi-n-propylamine	86-30-6		20														
-Nitrosodiphenylamine (Diphenylamine) aphthalene			20	12	100	100	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
•	91-20-3	12			100	100	0.018 J	0.015 J	< 0.006	0.009 J	0.007 J	0.006 J	0.013 J	0.007 J	0.023	0.045 J	< 0.006
itrobenzene -Chloro-m-cresol	98-95-3	0.17	40		3.7	15	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
	59-50-7 87-86-5	 0.8	0.8		2.4	6.7	< 0.02	< 0.021	< 0.029	< 0.028	< 0.024	< 0.028	< 0.027	< 0.022	< 0.019	< 0.1	< 0.03
Pentachlorophenol	87-86-5	0.8 1000	0.8	0.8 100	2.4		< 0.039	< 0.043	< 0.058	< 0.056	< 0.047	< 0.055	< 0.053	< 0.045 0.046	< 0.038	< 0.21	< 0.06
hononthrono																	
henanthrene henol	85-01-8 108-95-2	0.33	30	0.33	100	100 100	< 0.02	0.55 < 0.021	< 0.006 < 0.029	0.024 J < 0.028	0.016 J < 0.024	0.039 < 0.028	0.046 0.12	< 0.022	0.71	0.021 J < 0.1	< 0.03



Location Sample Da Field Sample Depth Inter Sample Purpo Parameter Name	e ID rval	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CF		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
Polychlorinated Biphenyls	Code	CF-51 FOG	CF-51 FER	Objectives	31 Residential	Restricted		<u> </u>									
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								
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	9,030 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		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	84.4 132	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
	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
Cobalt		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
	7440-50-8		-		2000		26,500	25,200	16,200	30,000	16,000	21,500	14,600	24,400	17,400	21,400	18,300
Copper	7440-50-8 7439-89-6						-,	.,				39.6	51.7	35.4	15.3	18.2	54.4
Copper Iron	7439-89-6	450	63	63	400	400	36.5	30.2	15.3	30.2	23.7						3,540
Copper Iron Lead		450 	63	63	400	400	36.5 6,070	30.2 4,690	15.3 3,320	30.2 5,490	23.7 3,220	4,330	2,860	5,150	8,060	3,790	
Copper Iron Lead Magnesium	7439-89-6 7439-92-1															3,790 520	
Copper Iron Lead Magnesium Manganese	7439-89-6 7439-92-1 7439-95-4	2000	-		-	-	6,070	4,690	3,320	5,490	3,220	4,330	2,860	5,150	8,060		2,140 22.7
Copper Iron Lead Magnesium Manganese Nickel	7439-89-6 7439-92-1 7439-95-4 7439-96-5	-	 1600	 1600	2000	2000	6,070 729	4,690 602 18.7	3,320 446 14.6	5,490 1,030 29.5	3,220 246	4,330 800	2,860 219	5,150 1,140 26.3	8,060 443	520 17.1	2,140 22.7
Copper Iron Lead Magnesium Manganese Nickel Potassium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0	 2000 130	 1600 30	1600 30	2000	2000	6,070 729 21.2	4,690 602	3,320 446	5,490 1,030	3,220 246 15.8	4,330 800 21.1	2,860 219 14.5	5,150 1,140	8,060 443 12.9	520	2,140
Copper Iron Lead Magnesium Manganese Mickel Potassium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	2000 130 	1600 30	 1600 30 	2000 140	2000 310	6,070 729 21.2 1,760	4,690 602 18.7 2,130	3,320 446 14.6 1,730	5,490 1,030 29.5 1,530	3,220 246 15.8 1,040	4,330 800 21.1 2,340	2,860 219 14.5 1,780	5,150 1,140 26.3 2,010	8,060 443 12.9 1,080	520 17.1 1,360	2,140 22.7 1,550
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	2000 130 4	 1600 30 3.9	1600 30 3.9	2000 140 36	2000 310 180	6,070 729 21.2 1,760 0.289 J	4,690 602 18.7 2,130 0.355 J	3,320 446 14.6 1,730 0.217 J	5,490 1,030 29.5 1,530 0.372 J	3,220 246 15.8 1,040 0.379 J	4,330 800 21.1 2,340 0.608 J	2,860 219 14.5 1,780 0.664 J	5,150 1,140 26.3 2,010 0.490 J	8,060 443 12.9 1,080 0.105 J	520 17.1 1,360 0.285 J	2,140 22.7 1,550 0.823 J
Copper ron Lead Magnesium Manganese Nickel Potassium Selenium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	2000 130 4 8.3	 1600 30 3.9 2	 1600 30 3.9	2000 140 36	2000 310 180	6,070 729 21.2 1,760 0.289 J 0.0547 J	4,690 602 18.7 2,130 0.355 J 0.104 J	3,320 446 14.6 1,730 0,217 J 0,0615 J	5,490 1,030 29.5 1,530 0.372 J 0.0864 J	3,220 246 15.8 1,040 0.379 J 0.109 J	4,330 800 21.1 2,340 0.608 J 0.181 J	2,860 219 14.5 1,780 0.664 J 0.258 J	5,150 1,140 26.3 2,010 0.490 J 0.176 J	8,060 443 12.9 1,080 0.105 J 0.0395 J	520 17.1 1,360 0.285 J 0.0523 J	2,140 22.7 1,550 0.823 J 0.224 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7439-89-6 7439-95-1 7439-95-4 7439-96-5 7440-09-7 7782-49-2 7440-22-4 7440-23-5	 2000 130 4 8.3	 1600 30 3.9 2	 1600 30 3.9 2	2000 140 36	2000 310 180	6,070 729 21.2 1,760 0.289 J 0.0547 J 48.6 J	4,690 602 18.7 2,130 0.355 J 0.104 J 51.0 J	3,320 446 14.6 1,730 0.217 J 0.0615 J 56.3 J	5,490 1,030 29.5 1,530 0.372 J 0.0864 J 40.4 J	3,220 246 15.8 1,040 0.379 J 0.109 J 54.9 J	4,330 800 21.1 2,340 0.608 J 0.181 J 64.5 J	2,860 219 14.5 1,780 0.664 J 0.258 J 60.3 J	5,150 1,140 26.3 2,010 0.490 J 0.176 J 53.0 J	8,060 443 12.9 1,080 0.105 J 0.0395 J 42.3 J	520 17.1 1,360 0.285 J 0.0523 J 32.1 J	2.140 22.7 1,550 0.823 J 0.224 J 66.0 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7439-89-6 7439-95-1 7439-95-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	2000 130 4 8.3	 1600 30 3.9 2 5	 1600 30 3.9 2 	2000 140 36 36 	2000 310 180 180	6,070 729 21.2 1,760 0.289 J 0.0547 J 48.6 J 0.105 J	4,690 602 18.7 2,130 0.355 J 0.104 J 51.0 J 0.138 J	3,320 446 14.6 1,730 0.217 J 0.0615 J 56.3 J 0.123 J	5,490 1,030 29.5 1,530 0.372 J 0.0864 J 40.4 J 0.126 J	3,220 246 15.8 1,040 0.379 J 0.109 J 54.9 J 0.204 J	4,330 800 21.1 2,340 0.608 J 0.181 J 64.5 J 0.172 J	2,860 219 14.5 1,780 0.664 J 0.258 J 60.3 J 0.176 J	5,150 1,140 26.3 2,010 0.490 J 0.176 J 53.0 J 0.164 J	8,060 443 12.9 1,080 0.105 J 0.0395 J 42.3 J 0.0692 J	520 17.1 1,360 0.285 J 0.0523 J 32.1 J 0.109 J	2,140 22.7 1,550 0.823 J 0.224 J 66.0 J 0.200 J
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc Mercury	7439-89-6 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	2000 130 4 8.3 	 1600 30 3.9 2 5	 1600 30 3.9 2 	2000 140 36 36 100	2000 310 180 180 	6,070 729 21.2 1,760 0.289 J 0.0547 J 48.6 J 0.105 J 26.1	4,690 602 18.7 2,130 0.355 J 0.104 J 51.0 J 0.138 J 30.4	3,320 446 14.6 1,730 0.217 J 0.0615 J 56.3 J 0.123 J 22.6	5,490 1,030 29.5 1,530 0.372 J 0.0864 J 40.4 J 0.126 J 30.5	3,220 246 15.8 1,040 0.379 J 0.109 J 54.9 J 0.204 J 26	4,330 800 21.1 2,340 0.608 J 0.181 J 64.5 J 0.172 J 36.2	2,860 219 14.5 1,780 0.664 J 0.258 J 60.3 J 0.176 J 31.9	5,150 1,140 26.3 2,010 0.490 J 0.176 J 53.0 J 0.164 J 34.2	8,060 443 12.9 1,080 0.105 J 0.0395 J 42.3 J 0.0692 J 13.7	520 17.1 1,360 0.285 J 0.0523 J 32.1 J 0.109 J 27.6	2,140 22.7 1,550 0.823 J 0.224 J 66.0 J 0.200 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.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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

B-3_OU-1E Soil Data - Land Use_dmc.xlsx 2/103



Location Sample D Field Sample	ate e ID			Unrestricted			OU1EESB12 5/24/2017 170524	OU1EESB13 6/1/2017 170601	OU1EESB14 6/1/2017 170601	OU1EESB15 6/1/2017 170601	OU1EESB16 5/31/2017 170531	OU1EESB17 5/31/2017 170531	OU1EESB18 5/23/2017 170523	OU1EESB19 5/23/2017 170523	OU1EESB20 5/24/2017 170524	OU1EESB21 5/25/2017 170525	OU1EESB22 5/30/2017 170530
Depth Inter	ose Parameter	375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) & CP	375-6.8(b) & CP- 51 Residential-	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	51 Residential	Restricted			<u> </u>	<u> </u>	<u> </u>					<u> </u>	<u> </u>
I,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
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
I,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
i-Trichlorophenol	95-95-4	0.1	4	-	100	-	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.41	< 0.13	< 0.13
-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
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
Dimethylphenol	105-67-9		20	_	100	_	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
Dinitrophenol	51-28-5	0.2	20		100	-	< 0.54	< 0.025	< 0.52	< 0.44	< 0.46	< 0.45	< 0.022	< 0.021	< 1.8	< 2.3	< 0.034
Dinitrotoluene	121-14-2	0.2					< 0.12	< 0.45	< 0.11	< 0.098	< 0.46	< 0.45	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
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
		0.17	-		1.03	-										< 0.13	
nloronaphthalene	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
nlorophenol (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
ethyl-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
ethylphenol (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
roaniline (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
rophenol (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
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
roaniline	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
Dinitro 2 mathydahan - 1/4 C Dinitro	al) F24 F2 4						.00	.005	. 0.00	.005	. 0.00	.0.05	.0.00	. 0.04			00:
Dinitro-2-methylphenol (4,6-Dinitro-o-cres	-		-	-	-	-	< 0.3	< 0.25	< 0.29	< 0.25	< 0.26	< 0.25	< 0.22	< 0.21	<1	< 1.3	< 0.34
romophenylphenylether	101-55-3		-	-	400		< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
nloroaniline	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
nlorophenyl 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
ethylphenol (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
troaniline	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
trophenol	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
aphthene	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
aphthylene	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
ophenone	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
racene	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
zine	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
zaldehyde	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
zo(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	<u>6.1</u>	< 0.025	0.062
zo(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
zo(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
zo(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
zo(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
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
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
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
	117-81-7	435	239		50			< 0.025		< 0.025			< 0.022	< 0.083	< 0.41	< 0.15	
2-Ethylhexyl)phthalate			239				< 0.12		< 0.11		< 0.1	< 0.1					< 0.13
lbenzylphthalate	85-68-7	122	-	-	100		< 0.12	< 0.1	< 0.11	0.13 J	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
rolactam	105-60-2	-	-		-	-	< 0.060	< 0.051	< 0.057	< 0.049	< 0.052	< 0.050	< 0.044	< 0.042	< 0.20	< 0.25	< 0.067
azole	86-74-8				-		< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	0.87	< 0.13	< 0.034
sene	218-01-9	1	-	1	1	3.9	0.073	0.046	0.084	0.062	0.042	0.065	0.046	0.028	6.8	< 0.025	0.091
butylphthalate	84-74-2	8.1	0.01	-	100	-	< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
octylphthalate	117-84-0	120	-	-	100		< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
nz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	0.009 J	0.008 J	0.015 J	0.006 J	0.006 J	0.009 J	< 0.004	< 0.004	1.3	< 0.025	< 0.007
nzofuran	132-64-9	6.20		7	14	59	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	0.2	< 0.13	< 0.034
ylphthalate	84-66-2	7.1	100		100		< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
ethyl phthalate	131-11-3	27	200		100		< 0.12	< 0.1	< 0.11	< 0.098	< 0.1	< 0.1	< 0.089	< 0.083	< 0.41	< 0.5	< 0.13
enyl (Biphenyl, Phenyl benzene)	92-52-4	-	60		-		< 0.030	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.10	< 0.13	< 0.034
ranthene	206-44-0	1000		100	100	100	0.11	0.084	0.15	0.094	0.07	0.11	0.066	0.043	11	0.039 J	0.13
rene	86-73-7	386	30	30	100	100	< 0.006	< 0.005	0.006 J	0.007 J	< 0.005	0.005 J	0.006 J	< 0.004	0.45	< 0.025	< 0.007
chlorobenzene	118-74-1	1.4	-	0.33	0.33	1.2	< 0.006	< 0.005	< 0.006	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	< 0.02	< 0.025	< 0.007
chlorobutadiene	87-68-3	-			-		< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
hlorocyclopentadiene	77-47-4	-	10		_		< 0.3	< 0.25	< 0.29	< 0.25	< 0.26	< 0.25	< 0.22	< 0.21	<1	< 1.3	< 0.34
hloroethane	67-72-1						< 0.06	< 0.051	< 0.057	< 0.049	< 0.052	< 0.05	< 0.044	< 0.042	< 0.2	< 0.25	< 0.067
(1,2,3-cd)Pyrene	193-39-5	8.2		0.5	0.5	0.5	0.043	0.029	0.047	0.034	0.024 J	0.039	0.025	0.017 J	4.3	< 0.025	0.052
	78-59-1																
orone		4.4		-	100	-	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
osodi-n-propylamine	621-64-7	-			-		< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
osodiphenylamine (Diphenylamine)	86-30-6		20		-		< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
thalene	91-20-3	12		12	100	100	0.012 J	0.006 J	0.018 J	0.013 J	0.011 J	0.012 J	0.021 J	0.005 J	0.12	< 0.025	0.008 J
enzene	98-95-3	0.17	40		3.7	15	< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
	59-50-7	-					< 0.03	< 0.025	< 0.029	< 0.025	< 0.026	< 0.025	< 0.022	< 0.021	< 0.1	< 0.13	< 0.034
oro-m-cresol		0.8	0.8	0.8	2.4	6.7	< 0.06	< 0.051	< 0.057	< 0.049	< 0.052	< 0.05	< 0.044	< 0.042	< 0.2	< 0.25	< 0.067
	87-86-5											0.061	0.048				
nloro-m-cresol cachlorophenol nanthrene	87-86-5 85-01-8	1000		100	100	100	0.064	0.04	0.081	0.058	0.04	0.061	0.046	0.019 J	5.7	< 0.025	0.034 J
achlorophenol			30	100 0.33	100 100	100 100	0.064 < 0.03	0.04 < 0.025	0.081 < 0.029	< 0.025	< 0.026	0.001	< 0.022	< 0.021	5.7 < 0.1	< 0.025 < 0.13	0.034 J < 0.034



Location Sample Da Field Sample Depth Interv Sample Purpo Parameter Name	ate ID val	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				· · ·											<u>'</u>		
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 delta BHC	319-85-7	0.09	0.6 0.04	0.036 0.04	0.072 100	0.36		< 0.00046		-	-		-	-			
DIELDRIN	319-86-8 60-57-1	0.25	0.006	0.005	0.039	100 0.2		< 0.00068 0.00056 JP				-					
Endosulfan I	959-98-8	102	0.006	2.4	4.8	24	 					-			-		
Endosulfan II	33213-65-9	102		2.4	4.6	24		< 0.00033 < 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			0.014				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		-		-	-				
· · · · · · · · · · · · · · · · ·		-						< 0.021									
Metals	0001 00 2							< 0.021									
	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
Metals										17,700 0.379 J		16,900 0.517 J	17,700 0.225 J	15,500 0.236 J	17,800 0.236 J	16,300 0.273 J	18,600 0.272 J
Metals Aluminum	7429-90-5	-	10000				24,500	16,700	19,800		14,100						
Metals Aluminum Antimony	7429-90-5 7440-36-0	-	10000 12		-	-	24,500 0.536 J	16,700 0.567	19,800 0.534	0.379 J	14,100 0.239 J	0.517 J	0.225 J		0.236 J	0.273 J	0.272 J
Metals Aluminum Antimony Arsenic	7429-90-5 7440-36-0 7440-38-2	 16 820 47	10000 12 13	 13 350 7.2	 16 350 14	 16	24,500 0.536 J 9.28	16,700 0.567 8.14	19,800 0.534 8.72	0.379 J 6.92	14,100 0.239 J 5.33	0.517 J 6.47 76 0.69	0.225 J 6.41 80.1 0.677	0.236 J 7 50.2 0.631	0.236 J 7.99	0.273 J 5.85	0.272 J 7.2 139 0.918
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820	10000 12 13 433	 13 350	 16 350	 16 400	24,500 0.536 J 9.28 97.9 1.17 0.234 J	16,700 0.567 8.14 119	19,800 0.534 8.72 138 1.02 0.444	0.379 J 6.92 79.5 0.872 0.365	14,100 0.239 J 5.33 56.8	0.517 J 6.47 76 0.69 0.257 J	0.225 J 6.41 80.1	0.236 J 7 50.2 0.631 0.158 J	0.236 J 7.99 88.3	0.273 J 5.85 93.2 0.7 0.136 J	0.272 J 7.2 139 0.918 0.346 J
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50	10000 12 13 433	 13 350 7.2 2.5	16 350 14 2.5	 16 400 72 4.3	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920	16,700 0.567 8.14 119 0.901 0.635 3,540	19,800 0.534 8.72 138 1.02 0.444 2,570	0.379 J 6.92 79.5 0.872 0.365 2,570	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460	0.517 J 6.47 76 0.69 0.257 J 1,730	0.225 J 6.41 80.1 0.677 0.135 J 1,990	0.236 J 7 50.2 0.631 0.158 J 838	0.236 J 7.99 88.3 0.827 0.215 3,440	0.273 J 5.85 93.2 0.7 0.136 J 2,160	0.272 J 7.2 139 0.918 0.346 J 4,080
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50	10000 12 13 433 10 4 10000	 13 350 7.2 2.5	16 350 14 2.5 	 16 400 72 4.3 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2	19,800 0.534 8.72 138 1.02 0.444 2,570	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6	0.517 J 6.47 76 0.69 0.257 J	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8	0.236 J 7 50.2 0.631 0.158 J 838 17.3	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	 16 820 47 7.50 	10000 12 13 433 10 4 10000	 -13 350 7.2 2.5 30	 16 350 14 2.5 36	 16 400 72 4.3 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31	0.236 J 7 50.2 0.631 0.158 J 838 17.3	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50	10000 12 13 433 10 4 10000	 13 350 7.2 2.5	 16 350 14 2.5 36 30 270	 16 400 72 4.3 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	10000 12 13 433 10 4 10000 20 50	 13 350 7.2 2.5 30	 16 350 14 2.5 36 30 270 2000	 16 400 72 4.3 180 270	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720 450	10000 12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000	 16 400 72 4.3 180 270 400	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4	 16 820 47 7.50 1720 450	10000 12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5		10000 12 13 433 10 4 10000 20 50 63 	 13 350 7.2 2.5 30 50 63 	16 350 14 2.5 36 30 270 2000 400 2000	16 400 72 4.3 180 270 400 2000	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130 1,540	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19,4 23,000 60.7 4,040 1,690	0.379 J 6.92 79.5 0.872 0.365 2.570 15.9 8.01 16.7 21,100 58.8 3,700 1,030	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-2 7440-47-3 7440-48-4 7440-50-8 7439-98-6 7439-95-4 7439-96-5 7440-02-0		10000 12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7429-90-5 7440-36-0 7440-39-3 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-96-5 7440-02-0 7440-09-7		10000 12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 50 63 1600 30	 16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310 16	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6 2,160	16,700 0.567 8.14 119 0.901 0.635 3.540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2 1,630	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2 1,190	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334 14.5	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7 1,390	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837 24 3,160	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9 1,900	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9 1,630
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-09-7 7782-49-2		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 2000 310 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6 2,160 0.612 J	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2 1,630 0.632 J	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2 1,190 0.740 J	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6 1,020 0.752 J	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334 14.5 1,070 0.555 J	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7 1,390 0.671 J	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7 1,440 0.390 J	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18 1,580 0.178 J	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837 24 3,160 0.258 J	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9 1,900 0.485 J	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9 1,630 0.451 J
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-09-7 7782-49-2 7440-22-4		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9		16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 2000 310 180 180 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6 2,160 0.612 J 0.134 J	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2 1,630 0.632 J 0.133 J	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2 1,190 0.740 J 0.245	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6 1,020 0.752 J 0.189 J	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334 14.5 1,070 0.555 J 0.120 J	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7 1,390 0.671 J 0.451	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7 1,440 0.390 J 0.0893 J	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18 1,580 0.178 J 0.0384 J	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837 24 3,160 0.258 J 0.136 J	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9 1,900 0.485 J 0.105 J	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9 1,630 0,451 J 0.156 J
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-95-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6 2,160 0.612 J 0.134 J 54.0 J	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2 1,630 0.632 J 0.133 J 39.8 J	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2 1,190 0.740 J 0.245 39.8 J	0.379 J 6.92 79.5 0.872 0.365 2.570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6 1,020 0.752 J 0.189 J 38.2 J	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334 14.5 1,070 0.555 J 0.120 J 61.5 J	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7 1,390 0.671 J 0.451 52.5 J	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7 1,440 0.390 J 0.0893 J 52.3 J	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18 1,580 0.178 J 0.0384 J 51.1 J	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837 24 3,160 0.258 J 0.136 J 67.4 J	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9 1,900 0.485 J 0.105 J 64.9 J	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9 1,630 0.451 J 0.156 J 62.9 J
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	 13 350 7.2 2.5 50 63 1600 30 3.9 2	 16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180 180 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6 2,160 0.612 J 0.134 J 54.0 J 0.225 J	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2 1,630 0.632 J 0.133 J 39.8 J 0.155 J	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2 1,190 0.740 J 0.245 39.8 J 0.219 J	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6 1,020 0.752 J 0.189 J 38.2 J	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334 14.5 1,070 0.555 J 0.120 J 61.5 J 0.154 J	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7 1,390 0.671 J 0.451 52.5 J 0.194 J	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7 1,440 0.390 J 0.0893 J 52.3 J 0.165 J	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18 1,580 0.178 J 0.0384 J 51.1 J	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837 24 3,160 0.258 J 0.136 J 67.4 J 0.131 J	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9 1,900 0.485 J 0.105 J 64.9 J 0.161 J	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9 1,630 0.451 J 0.156 J 62.9 J
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7429-90-5 7440-36-0 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0 7440-62-2		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5 39		16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 100	16 400 72 4.3 180 2000 310 180 180 180 1- 180 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6 2,160 0.612 J 0.134 J 54.0 J 0.225 J	16,700 0.567 8.14 119 0.901 0.635 3.540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2 1,630 0.632 J 0.133 J 39.8 J 0.155 J 37.4	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2 1,190 0.740 J 0.245 39.8 J 0.219 J 39.9	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6 1,020 0.752 J 0.189 J 38.2 J 0.178 J 35.6	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334 14.5 1,070 0.555 J 0.120 J 61.5 J 0.154 J 28.2	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7 1,390 0.671 J 0.451 52.5 J 0.194 J 37	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7 1,440 0.390 J 0.0893 J 52.3 J 0.165 J 29.5	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18 1,580 0.178 J 0.0384 J 51.1 J 0.0942 J 26.2	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837 24 3,160 0.258 J 0.136 J 67.4 J 0.131 J 38.7	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9 1,900 0.485 J 0.105 J 64.9 J 0.161 J 32.6	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9 1,630 0.451 J 0.156 J 62.9 J 0.174 J 35.3
Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	 13 350 7.2 2.5 50 63 1600 30 3.9 2	 16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180 180 180	24,500 0.536 J 9.28 97.9 1.17 0.234 J 1,920 26.6 14.1 20.7 37,900 57.8 6,950 1,530 30.6 2,160 0.612 J 0.134 J 54.0 J 0.225 J	16,700 0.567 8.14 119 0.901 0.635 3,540 16.2 9.59 24.3 22,200 49.4 5,130 1,540 24.2 1,630 0.632 J 0.133 J 39.8 J 0.155 J	19,800 0.534 8.72 138 1.02 0.444 2,570 17.6 9.15 19.4 23,000 60.7 4,040 1,690 23.2 1,190 0.740 J 0.245 39.8 J 0.219 J	0.379 J 6.92 79.5 0.872 0.365 2,570 15.9 8.01 16.7 21,100 58.8 3,700 1,030 19.6 1,020 0.752 J 0.189 J 38.2 J	14,100 0.239 J 5.33 56.8 0.537 0.268 J 3,460 14.6 5.41 11.2 13,500 46.5 3,170 334 14.5 1,070 0.555 J 0.120 J 61.5 J 0.154 J	0.517 J 6.47 76 0.69 0.257 J 1,730 16.8 6 18.7 17,300 64.1 3,120 363 18.7 1,390 0.671 J 0.451 52.5 J 0.194 J	0.225 J 6.41 80.1 0.677 0.135 J 1,990 33.8 9.31 20.4 22,100 26.2 4,350 769 19.7 1,440 0.390 J 0.0893 J 52.3 J 0.165 J	0.236 J 7 50.2 0.631 0.158 J 838 17.3 10.2 22.2 24,200 26.5 4,280 657 18 1,580 0.178 J 0.0384 J 51.1 J	0.236 J 7.99 88.3 0.827 0.215 3,440 20.3 10.8 25.7 26,900 30.1 7,310 837 24 3,160 0.258 J 0.136 J 67.4 J 0.131 J	0.273 J 5.85 93.2 0.7 0.136 J 2,160 17.3 9.87 17.2 20,900 34.2 4,410 813 20.9 1,900 0.485 J 0.105 J 64.9 J 0.161 J	0.272 J 7.2 139 0.918 0.346 J 4,080 18.1 10.3 20.1 21,900 37.3 4,430 1,140 25.9 1,630 0.451 J 0.156 J 62.9 J 0.174 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.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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

B-3_OU-1E Soil Data - Land Use_dmc.xlsx 4/103



Location	ID			Unrestricted		OU	1EESB23	OU1EESB24	OU1EESB25	OU1EESB26	OU1EESB27	OU1EESB28	OU1EESB29	OU1EESB30	OU1EESB31	OU1EESB32	OU1EESB33
Sample Da							30/2017	6/1/2017 170601	6/1/2017 170601	6/1/2017	5/31/2017 170531	5/31/2017 170531	5/23/2017 170523	5/23/2017 170523	5/23/2017	5/23/2017	5/24/2017
Field Sample	ID						70530			170601					170523	170523	170524
Depth Interv		075 0 0/4 \ 0	075 0 0/1-) 0	Use Soil			0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17
Sample Purpos Parameter Name	se Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	375-6.8(b) & CP- 51 Res 51 Residential Resi	tricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
nivolatile Organic Compounds				,,						'			<u>'</u>	'		<u>'</u>	
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
-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
,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
,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
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
4-Dichlorophenol	120-83-2	0.4	20		.00		: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
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
4-Dinitrophenol	51-28-5 121-14-2	0.2	20	-	100		< 0.44	< 3.2	< 2.6	< 0.41	< 0.41	< 0.45 < 0.1	< 0.38	< 0.45	< 0.47	< 0.42	< 0.37
4-Dinitrotoluene 6-Dinitrotoluene	606-20-2	0.17	-	-			: 0.096	< 0.72 < 0.18	< 0.58 < 0.14	< 0.091 < 0.023	< 0.09 < 0.023	< 0.025	< 0.084 < 0.021	< 0.1 < 0.025	< 0.1 < 0.026	< 0.093 < 0.023	< 0.082 < 0.02
Chloronaphthalene	91-58-7						< 0.01	< 0.072	< 0.058	< 0.009	< 0.009	< 0.025	< 0.021	< 0.025	< 0.026	< 0.009	< 0.02
Chlorophenol (o-Chlorophenol)	95-57-8		0.80				: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
Methyl-Naphthalene	91-57-6	36.4					: 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
Methylphenol (o-Cresol)	95-48-7	0.33		0.33			: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
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
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'-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
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
O Division O or other labor. 1770 Division	D 504 50 1						0.05			2.22	2.00	0.05	2.24	0.05	2.00	2.22	
,6-Dinitro-2-methylphenol (4,6-Dinitro-o-creso		-	-		-		< 0.25	< 1.8	< 1.4	< 0.23	< 0.23	< 0.25	< 0.21	< 0.25	< 0.26	< 0.23	< 0.2
-Bromophenylphenylether -Chloroaniline	101-55-3	0.22		-	100		0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
-Chlorophenyl phenyl ether	106-47-8 7005-72-3	0.22	-	-			: 0.049 : 0.025	< 0.36 < 0.18	< 0.29 < 0.14	< 0.045 < 0.023	< 0.045 < 0.023	< 0.05 < 0.025	< 0.042 < 0.021	< 0.05 < 0.025	< 0.052 < 0.026	< 0.047 < 0.023	< 0.041 < 0.02
-Methylphenol (p-Cresol)	106-44-5	0.33		0.33			0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
-Nitroaniline	100-44-5		-				: 0.023	< 0.72	< 0.58	< 0.023	< 0.023	< 0.1	< 0.021	< 0.1	< 0.1	< 0.023	< 0.082
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
cenaphthene	83-32-9	98	20	20	100 1		: 0.005	0.072 J	< 0.029	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005	< 0.005	< 0.005	0.078
cenaphthylene	208-96-8	107		100	100 1		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
cetophenone	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
nthracene	120-12-7	1000		100	100 1	00 (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
trazine	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
enzaldehyde	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
enzo(a)anthracene	56-55-3	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		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
enzo(b)fluoranthene	205-99-2	1.70		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
lenzo(g,h,i)perylene	191-24-2	1000		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 ;		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
is(2-Chloroethoxy)methane	111-91-1 111-44-4	-		-	-		0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
is(2-Chloroethyl) ether is(2-chloroisopropyl) ether	108-60-1	-		-	-		: 0.025 : 0.025	< 0.18 < 0.18	< 0.14 < 0.14	< 0.023 < 0.023	< 0.023 < 0.023	< 0.025 < 0.025	< 0.021 < 0.021	< 0.025 < 0.025	< 0.026 < 0.026	< 0.023 < 0.023	< 0.02 < 0.02
is(2-Ethylhexyl)phthalate	117-81-7	435	239				0.025	< 0.72	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.1	< 0.023	< 0.02
utylbenzylphthalate	85-68-7	122					: 0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
aprolactam	105-60-2						: 0.049	< 0.36	< 0.29	< 0.045	< 0.045	< 0.05	< 0.042	0.12 J	< 0.052	< 0.047	< 0.041
Carbazole	86-74-8	-			_		: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
thrysene	218-01-9	1		1	1 ;		0.035	0.48	0.083 J	0.019 J	0.033	0.065	0.1	0.032	0.035	0.052	0.007 J
i-n-butylphthalate	84-74-2	8.1	0.01				: 0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
i-n-octylphthalate	117-84-0	120			100		0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
ibenz(a,h)anthracene	53-70-3	1000		0.33	0.33 0	.33 (0.006 J	0.11 J	0.056 J	0.005 J	0.006 J	0.009 J	0.018 J	0.007 J	< 0.005	< 0.005	< 0.004
ibenzofuran	132-64-9	6.20		7			: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	0.072
iethylphthalate	84-66-2	7.1	100	-	100		0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
imethyl phthalate	131-11-3	27	200	-			0.098	< 0.72	< 0.58	< 0.091	< 0.09	< 0.1	< 0.084	< 0.1	< 0.1	< 0.093	< 0.082
iphenyl (Biphenyl, Phenyl benzene)	92-52-4	-	60				0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.020
luoranthene	206-44-0	1000		100			0.055	0.97	0.15	< 0.005	0.058	0.11	0.16	0.052	0.051	0.076	0.022
luorene	86-73-7	386	30	30			0.005	0.058 J	< 0.029	< 0.005	< 0.005	< 0.005	0.011 J	< 0.005	< 0.005	< 0.005	0.053
exachlorobenzene	118-74-1	1.4	-	0.33	0.33		0.005	< 0.036	< 0.029	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005	< 0.005	< 0.005	< 0.004
exachlorobutadiene exachlorocyclopentadiene	87-68-3 77-47-4	-	10	-	-		< 0.025 < 0.25	< 0.18 < 1.8	< 0.14 < 1.4	< 0.023 < 0.23	< 0.023 < 0.23	< 0.025 < 0.25	< 0.021 < 0.21	< 0.025	< 0.026	< 0.023 < 0.23	< 0.02 < 0.2
exacniorocyciopentadiene exachloroethane	67-72-1	-		-			< 0.25 : 0.049	< 0.36	< 1.4	< 0.23	< 0.23	< 0.25	< 0.21	< 0.25 < 0.05	< 0.26 < 0.052	< 0.23	< 0.2
deno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5			0.049 0.018 J	0.3	0.05 J	0.007 J	0.02 J	0.037	0.053	0.02 J	0.018 J	0.026	< 0.041
ophorone	78-59-1	4.4					0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
-Nitrosodi-n-propylamine	621-64-7		-	-			: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
-Nitrosodiphenylamine (Diphenylamine)	86-30-6	-	20				: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
aphthalene	91-20-3	12		12			0.006 J	0.039 J	< 0.029	< 0.005	0.006 J	0.009 J	0.015 J	0.016 J	0.008 J	0.017 J	0.18
trobenzene	98-95-3	0.17	40				: 0.025	< 0.18	< 0.14	0.081	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
Chloro-m-cresol	59-50-7	-					: 0.025	< 0.18	< 0.14	< 0.023	< 0.023	< 0.025	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
entachlorophenol	87-86-5	0.8	0.8	0.8	2.4		: 0.049	< 0.36	< 0.29	< 0.045	< 0.045	< 0.05	< 0.042	< 0.05	< 0.052	< 0.047	< 0.041
henanthrene	85-01-8	1000		100			0.031	0.52	0.077 J	0.012 J	0.034	0.06	0.12	0.027	0.031	0.063	0.087
henol	108-95-2	0.33	30	0.33	100 1	00 (0.025 J	< 0.18	< 0.14	< 0.023	< 0.023	0.027 J	< 0.021	< 0.025	< 0.026	< 0.023	< 0.02
yrene	129-00-0	1000		100	100 1		0.059	0.79	0.13 J	< 0.005	0.053	0.097	0.16	0.046	0.048	0.086	0.02 J



Sample Date Field Sample ID Depth Interval	d			Unrestricted Use Soil		375-6.8(b) & CP-	OU1EESB23 5/30/2017 170530 0-0.17	OU1EESB24 6/1/2017 170601 0-0.17	OU1EESB25 6/1/2017 170601 0-0.17	OU1EESB26 6/1/2017 170601 0-0.17	OU1EESB27 5/31/2017 170531 0-0.17	OU1EESB28 5/31/2017 170531 0-0.17	OU1EESB29 5/23/2017 170523 0-0.17	OU1EESB30 5/23/2017 170523 0-0.17	OU1EESB31 5/23/2017 170523 0-0.17	OU1EESB32 5/23/2017 170523 0-0.17	OU1EESB33 5/24/2017 170524 0-0.17
Sample Purpose Parameter Name	e Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	375-6.8(b) & CF 51 Residential	Residential-	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Polychlorinated Biphenyls	0000	0. 31. 00	OF STIER	Objectives	or residential	restricted									<u> </u>		
	12674-11-2	_			-		_	-								< 0.005	
	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	
	11096-82-5				-											< 0.0068	
	37324-23-5	-	-		-	-										< 0.0046	
	11100-14-4				-											< 0.0046	
Pesticides													l e e e e e e e e e e e e e e e e e e e	l e			
	72-54-8	14	0.0033	0.0033	2.6	13						-				< 0.00053 V	
	72-55-9	17	0.0033	0.0033	1.8	8.9										0.0025	
	50-29-3 309-00-2	136	0.0033	0.0033	1.7	7.9						-				0.0012 J	
	319-84-6	0.19 0.02	0.14 0.04	0.005 0.02	0.019 0.097	0.097 0.48	-	-		-	-	-	-	-		< 0.00024 0.00026 J	
	5103-71-9	2.9	1.30	0.02	0.097	0.48 4.2										< 0.00024	
·	319-85-7	0.09	0.6	0.094	0.91	0.36					-	-	-		-	< 0.00024	
	319-86-8	0.05	0.04	0.036	100	100										< 0.00042	
	60-57-1	0.1	0.006	0.005	0.039	0.2					-	-	-			< 0.00046	
	959-98-8	102		2.4	4.8	24		-					-		-	< 0.00040	
	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	
HEDTACHI OD EDOVIDE	1024-57-3	0.02	-		0.077											< 0.00024	
					100											< 0.0024	
METHOXYCHLOR	72-43-5	900	1.2														
METHOXYCHLOR TOXAPHENE			1.2													< 0.02	
METHOXYCHLOR TOXAPHENE Metals	72-43-5 8001-35-2	900			-											< 0.02	
METHOXYCHLOR TOXAPHENE Metals Aluminum	72-43-5 8001-35-2 7429-90-5	900	10000		-		19,800	12,400	15,400	14,100	20,400	20,000	16,000	15,400	18,300	< 0.02	18,900
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony	72-43-5 8001-35-2 7429-90-5 7440-36-0	900	10000 12				 19,800 0.499 J	12,400 < 0.183	<i>15,400</i> 0.499 J	14,100 0.276 J	20,400 0.34 J	20,000 0.28 J	16,000 0.242 J	15,400 0.177 J	18,300 0.178 J	< 0.02 16,700 0.275 J	18,900 0.153 J
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2	900 16	10000 12 13	 13	 16	 16	19,800 0.499 J 7.81	12,400 < 0.183 6.48	<i>15,400</i> 0.499 J 6.44	14,100 0.276 J 6.39	20,400 0.34 J 8.41	20,000 0.28 J 7.59	16,000 0.242 J 7.29	15,400 0.177 J 5.32	18,300 0.178 J 6.27	< 0.02 16,700 0.275 J 6.01	18,900 0.153 J 4.56
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3	900 16 820	10000 12 13 433	 13 350	 16 350	 16 400	19,800 0.499 J 7.81 69.8	12,400 < 0.183 6.48 76	15,400 0.499 J 6.44 80.5	14,100 0.276 J 6.39 52.5	20,400 0.34 J 8.41 61.6	20,000 0.28 J 7.59 80.7	16,000 0.242 J 7.29 43.7	15,400 0.177 J 5.32 63.5	18,300 0.178 J 6.27 90.4	< 0.02 16,700 0.275 J 6.01 68.6	18,900 0.153 J 4.56 72.2
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7	900 16 820 47	10000 12 13	 13 350 7.2	 16 350 14	 16 400 72	19,800 0.499 J 7.81 69.8 0.764	12,400 < 0.183 6.48 76 0.858	15,400 0.499 J 6.44 80.5 0.776	14,100 0.276 J 6.39 52.5 0.595	20,400 0.34 J 8.41 61.6 1.02	20,000 0.28 J 7.59 80.7 1.12	16,000 0.242 J 7.29 43.7 0.541	15,400 0.177 J 5.32 63.5 0.601	18,300 0.178 J 6.27 90.4 0.806	< 0.02 16,700 0.275 J 6.01 68.6 0.628	18,900 0.153 J 4.56 72.2 0.827
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3	900 16 820	10000 12 13 433	 13 350	 16 350	 16 400	19,800 0,499 J 7,81 69,8 0,764 0,178 J	12,400 < 0.183 6.48 76 0.858 0.559	15,400 0.499 J 6.44 80.5 0.776	14,100 0.276 J 6.39 52.5 0.595	20,400 0.34 J 8.41 61.6 1.02	20,000 0.28 J 7.59 80.7 1.12	16,000 0.242 J 7.29 43.7 0.541 0.100 J	15,400 0.177 J 5.32 63.5 0.601 0.119 J	18,300 0.178 J 6.27 90.4 0.806 0.139 J	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J	18,900 0.153 J 4.56 72.2 0.827 0.0639 J
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	900 16 820 47 7.50	10000 12 13 433 10	 13 350 7.2 2.5	 16 350 14 2.5	 16 400 72 4.3	19,800 0.499 J 7.81 69.8 0.764	12,400 < 0.183 6.48 76 0.858	15,400 0.499 J 6.44 80.5 0.776	14,100 0.276 J 6.39 52.5 0.595	20,400 0.34 J 8.41 61.6 1.02	20,000 0.28 J 7.59 80.7 1.12	16,000 0.242 J 7.29 43.7 0.541	15,400 0.177 J 5.32 63.5 0.601	18,300 0.178 J 6.27 90.4 0.806	< 0.02 16,700 0.275 J 6.01 68.6 0.628	18,900 0.153 J 4.56 72.2 0.827
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Ccadmium Calcium Chromium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	900 16 820 47 7.50	10000 12 13 433 10 4 10000	 13 350 7.2 2.5	 16 350 14 2.5 36	 16 400 72 4.3	19,800 0,499 J 7,81 69,8 0,764 0,178 J 752	12,400 < 0.183 6.48 76 0.858 0.559 11,800	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070	16,000 0.242 J 7.29 43.7 0.541 0.100 J	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	900 16 820 47 7.50	10000 12 13 433 10 4 10000	 13 350 7.2 2.5 30	 16 350 14 2.5	 16 400 72 4.3 180	19,800 0,499 J 7.81 69.8 0.764 0.178 J 752 19.8	12,400 < 0.183 6.48 76 0.858 0.559	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	900 16 820 47 7.50	10000 12 13 433 10 4 10000 	 13 350 7.2 2.5 30	 16 350 14 2.5 36	 16 400 72 4.3 180	19,800 0.499 J 7.81 69.8 0.764 0.178 J 752 19.8 9.93	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	72-43-5 8001-35-2 7449-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	900 16 820 47 7.50	10000 12 13 433 10 4 10000 	 13 350 7.2 2.5 30	16 350 14 2.5 36 30 270	 16 400 72 4.3 180	19,800 0,499 J 7.81 69.8 0.764 0.178 J 752 19.8 9.93	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	900 1- 16 820 47 7.50 1720	10000 12 13 433 10 4 10000 20 50	 13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000	 16 400 72 4.3 180 270	19,800 0.499 J 7.81 69.8 0.764 0.178 J 752 19.8 9.93 19.9 24,000	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Ccadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-92-1	900 16 820 47 7.50 1720 450 2000	10000 12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000 400	 16 400 72 4.3 180 270 400	19,800 0,499 J 7,81 69,8 0,764 0,178 J 752 19,8 9,93 19,9 24,000 32	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	72-43-5 8001-35-2 7449-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-70-2 7440-7-3 7440-48-4 7440-50-8 7439-89-6 7439-96-5 7440-92-0	900 16 820 47 7.50 1720 450	10000 12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000		19,600 0,499 J 7.81 69.8 0.764 0.178 J 752 19.8 9.93 19.9 24,000 32 4,170 672 21.6	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7440-09-7	900	10000 12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140		19,800 0,499 J 7,81 69,8 0,764 0,178 J 752 19,8 9,93 19,9 24,000 32 4,170 672 21,6	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930 1,080 28.3 1,870	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2 1,060	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930 468 15.5 730	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840 514 20.9 1,050	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300 801 17.9 1,140	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210 1,010 20.3 1,030	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4 1,350	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5 1,490
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-93-1 7439-95-4 7439-96-5 7440-09-7 7782-49-2	900 16 820 47 7.50 1720 450 2000 130 4	10000 12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36		19,800 0,499 J 7,81 69,8 0,764 0,178 J 752 19,8 9,93 19,9 24,000 32 4,170 672 21,6 1,460 0,710 J	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930 1,080 28.3 1,870 0.378 J	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2 1,060 0.759 J	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930 468 15.5 730 0.462 J	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840 514 20.9 1,050 0.410 J	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300 801 17.9 1,140 0.338 J	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210 1,010 20.3 1,030 0.546 J	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4 1,350 0.483 J	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5 1,490 0.313 J
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	900 16 820 47 7.50 1720 450 2000 130 4 8.3	10000 12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36		19,800 0,499 J 7.81 69.8 0,764 0,178 J 752 19.8 9.93 19.9 24,000 32 4,170 672 21.6 1,460 0,710 J 0,114 J	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930 1,080 28.3 1,870 0.378 J 0.171 J	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2 1,060 0.759 J 0.326 J	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930 468 15.5 730 0.462 J 0.114 J	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840 514 20.9 1,050 0,410 J 0.0831 J	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300 801 17.9 1,140 0.338 J 0.0541 J	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210 1,010 20.3 1,030 0.546 J 0.0939 J	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4 1,350 0.483 J 0.0989 J	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5 1,490 0.313 J 0.0482 J
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	72-43-5 8001-35-2 7429-90-5 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5	900 16 820 47 7.50 1720 450 2000 130 4 8.3	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 2000 140 36 36 36		19,800 0,499 J 7,81 69,8 0,764 0,178 J 752 19,8 9,93 19,9 24,000 32 4,170 672 21,6 1,460 0,710 J 0,114 J 48,4 J	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930 1,080 28.3 1,870 0.378 J 0.171 J 74.3 J	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2 1,060 0.759 J 0.326 J 49.6 J	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930 468 15.5 730 0.462 J 0.114 J 32.1 J	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J 45.3 J	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J 35.8 J	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840 514 20.9 1,050 0.410 J 0.0831 J 37.5 J	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300 801 17.9 1,140 0.338 J 0.0541 J 38.8 J	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210 1,010 20.3 1,030 0.546 J 0.0939 J 51.7 J	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4 1,350 0.483 J 0.0989 J 58.3 J	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5 1,490 0.313 J 0.0482 J
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver Sodium Thallium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-68-8 7439-95-4 7439-95-4 7439-95-5 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	900	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36		19,600 0,499 J 7,81 69.8 0,764 0,178 J 752 19.8 9,93 19.9 24,000 32 4,170 672 21.6 1,460 0,710 J 0,114 J 48.4 J 0,189 J	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930 1,080 28.3 1,870 0.378 J 0.171 J 74.3 J 0.0974 J	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2 1,060 0.759 J 0.326 J 49.6 J 0.165 J	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930 468 15.5 730 0.462 J 0.114 J 32.1 J 0.154 J	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J 45.3 J 0.182 J	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J 35.8 J 0.145 J	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840 514 20.9 1,050 0.410 J 0.0831 J 37.5 J 0.134 J	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300 801 17.9 1,140 0.338 J 0.0541 J 38.8 J 0.126 J	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210 1,010 20.3 1,030 0.546 J 0.0939 J 51.7 J 0.162 J	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4 1,350 0.483 J 0.0989 J 58.3 J 0.159 J	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5 1,490 0.313 J 0.0482 J 40.2 J 0.135 J
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-95-5 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-62-2	900 16 820 47 7.50 1720 450 2000 130 4 8.3	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5 39				19,800 0,499 J 7,81 69,8 0,764 0,178 J 752 19,8 9,93 19,9 24,000 32 4,170 672 21,6 1,460 0,710 J 0,114 J 48,4 J 0,188 J 32,4	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930 1,080 28.3 1,870 0.378 J 0.171 J 74.3 J 0.0974 J 28.8	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2 1,060 0.759 J 0.326 J 49.6 J 0.165 J 39.5	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930 468 15.5 730 0.462 J 0.114 J 32.1 J 0.154 J 26.5	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J 45.3 J 0.182 J 32.8	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J 35.8 J 0.145 J 35.4	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840 514 20.9 1,050 0.410 J 0.0831 J 37.5 J 0.134 J 30.7	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300 801 17.9 1,140 0.338 J 0.0541 J 38.8 J 0.126 J 27.2	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210 1,010 20.3 1,030 0.546 J 0.0939 J 51.7 J 0.162 J 32.6	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4 1,350 0.483 J 0.0989 J 58.3 J 0.159 J 35.8	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5 1,490 0.313 J 0.0482 J 40.2 J 0.135 J 26.5
METHOXYCHLOR TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-68-8 7439-95-4 7439-95-4 7439-95-5 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	900	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36		19,600 0,499 J 7,81 69.8 0,764 0,178 J 752 19.8 9,93 19.9 24,000 32 4,170 672 21.6 1,460 0,710 J 0,114 J 48.4 J 0,189 J	12,400 < 0.183 6.48 76 0.858 0.559 11,800 14.3 7.95 28.8 22,900 24 7,930 1,080 28.3 1,870 0.378 J 0.171 J 74.3 J 0.0974 J	15,400 0.499 J 6.44 80.5 0.776 0.489 4,080 13.8 5.11 14.1 15,800 59.6 2,850 934 16.2 1,060 0.759 J 0.326 J 49.6 J 0.165 J	14,100 0.276 J 6.39 52.5 0.595 0.225 1,760 12 5.73 11.3 16,300 39.1 2,930 468 15.5 730 0.462 J 0.114 J 32.1 J 0.154 J	20,400 0.34 J 8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J 45.3 J 0.182 J	20,000 0.28 J 7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J 35.8 J 0.145 J	16,000 0.242 J 7.29 43.7 0.541 0.100 J 485 17.9 10.1 21.2 26,100 36.4 4,840 514 20.9 1,050 0.410 J 0.0831 J 37.5 J 0.134 J	15,400 0.177 J 5.32 63.5 0.601 0.119 J 931 16.3 9.84 16.2 22,000 21.3 4,300 801 17.9 1,140 0.338 J 0.0541 J 38.8 J 0.126 J	18,300 0.178 J 6.27 90.4 0.806 0.139 J 1,570 18.4 9.05 18.5 22,500 32.5 4,210 1,010 20.3 1,030 0.546 J 0.0939 J 51.7 J 0.162 J	< 0.02 16,700 0.275 J 6.01 68.6 0.628 0.0987 J 791 17.7 8.92 16.7 19,900 49.7 3,780 597 18.4 1,350 0.483 J 0.0989 J 58.3 J 0.159 J	18,900 0.153 J 4.56 72.2 0.827 0.0639 J 542 20.6 9.4 15.4 25,600 12.7 4,960 659 21.5 1,490 0.313 J 0.0482 J 40.2 J 0.135 J

--: Not applicable

SCO: Soil Cleanup Objective

POG: Protection of Groundwater

PER: Protection of Ecological Resources < : Not detected at the laboratory method detection limit.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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 I	ID						OU1EESB34	OU1EESB35	OU1EESB36	OU1EESB37	OU1EESB38	OU1EESB39	OU1EESB40	OU1EESB41	OU1EESB42	OU1EESB43	OU1EESB44
Sample Dat							5/24/2017	5/24/2017	5/25/2017	5/24/2017	5/25/2017	5/25/2017	6/1/2017	6/1/2017	5/26/2017	5/30/2017	5/30/2017
Field Sample I Depth Interv				Unrestricted Use Soil		375-6.8(b) & CP-	170524 0-0.17	170524 0-0.17	170525 0-0.17	170524 0-0.17	170525 0-0.17	170525 0-0.17	170601 0-0.17	170601 0-0.17	170526 0-0.17	170530 0-0.17	170530 0-0.17
Sample Purpos		375-6.8(b) &	375-6.8(b) &	Cleanup	375-6.8(b) & CP-	51 Residential-	REG										
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	51 Residential	Restricted				<u> </u>				<u> </u>	<u> </u>		
4,5-Tetrachlorobenzene	0E 04 2						. 0.000	.0.02	.0.022	. 0.022	. 0.024	. 0.000	.0.024	.0.025	.0.02	.0.022	. 0.025
Dioxane	95-94-3 123-91-1	0.1	0.1	0.1	9.8	13	< 0.023 < 0.14	< 0.02 < 0.12	< 0.022 < 0.13	< 0.023 < 0.14	< 0.021 < 0.13	< 0.029 < 0.17	< 0.024 < 0.14	< 0.025 < 0.15	< 0.02 < 0.12	< 0.032 < 0.19	< 0.025 < 0.15
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	< 0.13
5-Trichlorophenol	95-95-4	0.1	4		100		< 0.023	< 0.02	< 0.022	< 0.032	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
,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
I-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
-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
-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
-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
-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
hloronaphthalene	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
hlorophenol (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
ethyl-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
ethylphenol (o-Cresol) itroaniline (o-Nitroaniline)	95-48-7 88-74-4	0.33		0.33	100	100	< 0.023 < 0.023	< 0.02 < 0.02	< 0.022 < 0.022	< 0.023 < 0.023	< 0.021	< 0.029 < 0.029	< 0.024 < 0.024	< 0.025 < 0.025	< 0.02 < 0.02	< 0.032 < 0.032	< 0.025 < 0.025
itrophenol (o-Nitrophenol)	88-74-4 88-75-5	0.4	7			-	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021 < 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
-Dichlorobenzidine	91-94-1	0.3					< 0.14	< 0.02	< 0.022	< 0.14	< 0.021	< 0.17	< 0.024	< 0.15	< 0.02	< 0.032	< 0.025
itroaniline	99-09-2	0.5			-	-	< 0.094	< 0.12	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
-							. ,										1.5
-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol					-		< 0.23	< 0.2	< 0.22	< 0.23	< 0.21	< 0.29	< 0.24	< 0.25	< 0.2	< 0.32	< 0.25
romophenylphenylether	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
hloroaniline	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
hlorophenyl 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
ethylphenol (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
itroaniline	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
trophenol	100-02-7	0.1 98	7 20		100	400	< 0.23	< 0.2	< 0.22	< 0.23	< 0.21	< 0.29	< 0.24	< 0.25	< 0.2	< 0.32	< 0.25
naphthene naphthylene	83-32-9 208-96-8	107		20 100	100 100	100 100	< 0.005 0.013 J	< 0.004 0.006 J	< 0.004 0.004 J	< 0.005 0.006 J	< 0.004 0.009 J	< 0.006 0.013 J	< 0.005 0.012 J	< 0.005 0.006 J	< 0.004 < 0.004	< 0.006 0.009 J	< 0.005 < 0.005
ophenone	98-86-2						0.013 J	< 0.020	< 0.022	< 0.023	< 0.021	< 0.029	0.040 J	< 0.025	< 0.020	< 0.032	< 0.005
racene	120-12-7	1000		100	100	100	0.029 J	< 0.020	< 0.004	< 0.005	0.012 J	0.014 J	0.014 J	< 0.005	< 0.004	0.007 J	0.005 J
zine	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
zaldehyde	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
izo(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
zo(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
zo(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
nzo(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
nzo(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
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
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
2-chloroisopropyl) ether	108-60-1	405				-	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
2-Ethylhexyl)phthalate	117-81-7 85-68-7	435 122	239		50 100	-	< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	0.13 J	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1 < 0.1
/lbenzylphthalate rolactam	105-60-2	122			100	-	< 0.094 < 0.047	< 0.08 < 0.040	< 0.088 < 0.044	< 0.092 < 0.046	< 0.086 < 0.043	< 0.11 < 0.057	< 0.096 < 0.048	< 0.099 < 0.049	< 0.079 < 0.039	< 0.13 < 0.063	< 0.051
bazole	86-74-8	-		-		-	< 0.023	< 0.040	< 0.022	< 0.023	< 0.021	< 0.029	< 0.048	< 0.025	< 0.02	< 0.032	< 0.025
ysene	218-01-9	1		1	1	3.9	0.039	0.006 J	0.023	0.02 J	0.047	0.057	0.062	0.025 J	0.011 J	0.06	0.024 J
-butylphthalate	84-74-2	8.1	0.01		100		< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
-octylphthalate	117-84-0	120			100	-	< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
enz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	0.008 J	< 0.004	< 0.004	< 0.005	0.007 J	0.008 J	< 0.005	< 0.005	< 0.004	0.011 J	< 0.005
nzofuran	132-64-9	6.20		7	14	59	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
nylphthalate	84-66-2	7.1	100		100	-	< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
ethyl phthalate	131-11-3	27	200		100	-	< 0.094	< 0.08	< 0.088	< 0.092	< 0.086	< 0.11	< 0.096	< 0.099	< 0.079	< 0.13	< 0.1
enyl (Biphenyl, Phenyl benzene)	92-52-4		60				< 0.023	< 0.020	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.020	< 0.032	< 0.025
ranthene	206-44-0	1000		100	100	100	0.063	0.008 J	0.036	0.035	0.07	0.096	0.1	0.042	0.018 J	0.094	0.034
rene	86-73-7	386	30	30	100	100	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.006	< 0.005	< 0.005	< 0.004	< 0.006	< 0.005
achlorobenzene	118-74-1	1.4		0.33	0.33	1.2	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.006	< 0.005	< 0.005	< 0.004	< 0.006	< 0.005
chlorobutadiene	87-68-3	-			-		< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
chlorocyclopentadiene	77-47-4	-	10		-	-	< 0.23	< 0.2	< 0.22	< 0.23	< 0.21	< 0.29	< 0.24	< 0.25	< 0.2	< 0.32	< 0.25
chloroethane	67-72-1			 0.5			< 0.047	< 0.04	< 0.044	< 0.046	< 0.043	< 0.057	< 0.048	< 0.049	< 0.039	< 0.063	< 0.051
o(1,2,3-cd)Pyrene	193-39-5 78-59-1	8.2 4.4		0.5	0.5 100	0.5	0.023 J < 0.023	< 0.004 < 0.02	0.011 J < 0.022	0.012 J < 0.023	0.023	0.033	0.031	0.014 J < 0.025	0.006 J < 0.02	0.03 J < 0.032	0.015 J < 0.025
rosodi-n-propylamine	78-59-1 621-64-7	4.4	-	-	100		< 0.023 < 0.023	< 0.02	< 0.022 < 0.022	< 0.023	< 0.021	< 0.029 < 0.029	< 0.024	< 0.025 < 0.025	< 0.02 < 0.02	< 0.032	< 0.025 < 0.025
rosodi-n-propylamine rosodiphenylamine (Diphenylamine)	86-30-6	_	20	-	-		< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
nthalene	91-20-3	12		12	100	100	< 0.023 0.013 J	< 0.02	< 0.022 0.006 J	< 0.023 0.005 J	< 0.021 0.011 J	0.029 0.015 J	< 0.024 0.015 J	< 0.025 0.005 J	< 0.02	< 0.032 0.018 J	< 0.025
benzene	98-95-3	0.17	40		3.7	15	< 0.013 3	< 0.004	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.005
loro-m-cresol	59-50-7						< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	< 0.032	< 0.025
achlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.047	< 0.02	< 0.044	< 0.025	< 0.043	< 0.057	< 0.048	< 0.049	< 0.039	< 0.063	< 0.051
nanthrene	85-01-8	1000		100	100	100	0.04	0.005 J	0.017 J	0.02 J	0.04	0.053	0.057	0.021 J	0.009 J	0.059	0.02 J
enol	108-95-2	0.33	30	0.33	100	100	< 0.023	< 0.02	< 0.022	< 0.023	< 0.021	< 0.029	< 0.024	< 0.025	< 0.02	0.055 J	< 0.025
ene	129-00-0	1000	-	100	100	100	0.061	0.009 J	0.03	0.032	0.064	0.093	0.098	0.041	0.016 J	0.09	0.033



Location I	ID						OU1EESB34	OU1EESB35	OU1EESB36	OU1EESB37	OU1EESB38	OU1EESB39	OU1EESB40	OU1EESB41	OU1EESB42	OU1EESB43	OU1EESB44
Sample Date							5/24/2017	5/24/2017	5/25/2017	5/24/2017	5/25/2017	5/25/2017	6/1/2017	6/1/2017	5/26/2017	5/30/2017	5/30/2017
Field Sample I				Unrestricted		/	170524	170524	170525	170524	170525	170525	170601	170601	170526	170530	170530
Depth Interv Sample Purpos		375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) & CP	375-6.8(b) & CP-	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG	0-0.17 REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	51 Residential		KEG	REG	REG	REG	REG	REG	REG	REG	REG	REG	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											0	0					,
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 DIELDRIN	319-86-8	0.25 0.1	0.04	0.04 0.005	100 0.039	100 0.2		< 0.00055 < 0.0004				-		< 0.00067 0.00063 JP			
	60-57-1 959-98-8	102		2.4		24				-							
Endosulfan II	33213-65-9	102		2.4	4.8	24		< 0.00027 < 0.0004			-	-		< 0.00033 < 0.00049			
ENDOSULFAN SULFATE	1031-07-8	1000		2.4	4.8	24		< 0.0004				-		< 0.00049			-
ENDRIN SOLFATE	72-20-8	0.06	0.01	0.014	2.2	11		< 0.0004				-		< 0.00049			
ENDRIN ALDEHYDE	7421-93-4	0.00	0.01	0.014			-	< 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		< 0.0001						< 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			44000
Antimony	7440-36-0					-						,=		14,200	16,800	16,500	14,200
			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	16,800 0.242 J	16,500 0.39 J	0.264 J
Arsenic	7440-38-2	16	12 13	13	 16	 16	0.290 J 7.48		6.4	0.183 J 5.1	0.289 J 6.15	0.416 J 8.75	0.273 J 7.64	0.247 J 5.78		0.39 J 7.42	0.264 J 6.08
Arsenic Barium	7440-38-2 7440-39-3	16 820	12	13 350	 16 350		0.290 J	0.123 J		0.183 J	0.289 J	0.416 J	0.273 J	0.247 J 5.78 97	0.242 J	0.39 J 7.42 129	0.264 J
Barium Beryllium	7440-38-2 7440-39-3 7440-41-7	16 820 47	12 13 433 10	13 350 7.2	350 14	 16 400 72	0.290 J 7.48 87.4 0.882	0.123 J 6.6 83.8 0.826	6.4 84.9 0.8	0.183 J 5.1 71 0.685	0.289 J 6.15 60 0.648	0.416 J 8.75 58.4 0.797	0.273 J 7.64 99.7 1.06	0.247 J 5.78 97 0.607	0.242 J 5.66 62.3 0.661	0.39 J 7.42 129 0.886	0.264 J 6.08 51.9 0.66
Barium Beryllium Cadmium	7440-38-2 7440-39-3 7440-41-7 7440-43-9	16 820 47 7.50	12 13 433 10 4	13 350 7.2 2.5	350	16 400 72 4.3	0.290 J 7.48 87.4 0.882 0.152 J	0.123 J 6.6 83.8 0.826 0.117 J	6.4 84.9 0.8 0.165 J	0.183 J 5.1 71 0.685 0.153 J	0.289 J 6.15 60 0.648 0.167 J	0.416 J 8.75 58.4 0.797 0.168 J	0.273 J 7.64 99.7 1.06 0.111 J	0.247 J 5.78 97 0.607 0.166 J	0.242 J 5.66 62.3 0.661 0.148 J	0.39 J 7.42 129 0.886 0.346	0.264 J 6.08 51.9 0.66 0.191 J
Barium Beryllium Cadmium Calcium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	16 820 47 7.50	12 13 433 10 4 10000	13 350 7.2 2.5	350 14 2.5 	16 400 72 4.3	0.290 J 7.48 87.4 0.882 0.152 J 846	0.123 J 6.6 83.8 0.826 0.117 J 1,570	6.4 84.9 0.8 0.165 J 1,430	0.183 J 5.1 71 0.685 0.153 J 814	0.289 J 6.15 60 0.648 0.167 J	0.416 J 8.75 58.4 0.797 0.168 J	0.273 J 7.64 99.7 1.06 0.111 J 1,040	0.247 J 5.78 97 0.607 0.166 J 2,370	0.242 J 5.66 62.3 0.661 0.148 J 2.830	0.39 J 7.42 129 0.886 0.346 4,850	0.264 J 6.08 51.9 0.66 0.191 J 3,470
Barium Beryllium Cadmium Calcium Chromium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	16 820 47 7.50 	12 13 433 10 4 10000	13 350 7.2 2.5 30	350 14 2.5 36	 16 400 72 4.3 180	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3	6.4 84.9 0.8 0.165 J 1,430 20.1	0.183 J 5.1 71 0.685 0.153 J 814 17.5	0.289 J 6.15 60 0.648 0.167 J 765	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7	0.247 J 5.78 97 0.607 0.166 J 2,370 15.5	0.242 J 5.66 62.3 0.661 0.148 J 2,830 18.1	0.39 J 7.42 129 0.886 0.346 4,850 16.5	0.264 J 6.08 51.9 0.66 0.191 J 3,470 11.4
Barium Beryilium Cadmium Calcium Chromium Cobalt	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	16 820 47 7.50 	12 13 433 10 4 10000 	13 350 7.2 2.5 30	350 14 2.5 36 30	 16 400 72 4.3 180	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2	0.183 J 5.1 71 0.685 0.153 J 814 17.5	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84	0.264 J 6.08 51.9 0.66 0.191 J 3,470 11.4 5.7
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	16 820 47 7.50 	12 13 433 10 4 10000	13 350 7.2 2.5 30	350 14 2.5 36 30 270	 16 400 72 4.3 180	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5	0.264 J 6.08 51.9 0.66 0.191 J 3,470 11.4 5.7
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	16 820 47 7.50 1720	12 13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	350 14 2.5 36 30 270 2000	 16 400 72 4.3 180 270	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000	0.123 J 6.6 83.8 0.826 0.117 J 1.570 21.3 13.1 25.8 29,300 E	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14 15.8 19,300	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10 17.8 27,000	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400	0.264 J 6.08 51.9 0.66 0.191 J 3,470 11.4 5.7 11.8 14,700
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	350 14 2.5 36 30 270	 16 400 72 4.3 180 270 400	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9	0.247 J 5.78 97 0.607 0.166 J 2,370 15.5 9.14 15.8 19,300 37.1	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10 17.8 27,000	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7 5,730	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600	0.247 J 5.78 97 0.607 0.166 J 2,370 15.5 9.14 15.8 19,300 37.1 3,900	0.242 J 5.66 62.3 0.661 0.148 J 2,830 18.1 10 17.8 27,000 19.3 6,640	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6 3.570
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-98-6 7439-92-1 7439-95-4 7439-96-5	16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	350 14 2.5 36 30 270 2000 400 2000	 16 400 72 4.3 180 270 400 2000	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7 5,730 639	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598	0.247 J 5.78 97 0.607 0.166 J 2,370 15.5 9.14 15.8 19,300 37.1 3,900 797	0.242 J 5.66 62.3 0.661 0.148 J 2,830 18.1 10 17.8 27,000 19.3 6,640 851	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6 3.570 487
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-96-5 7440-02-0	16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782	0.123 J 6.6 83.8 0.826 0.117 J 1.570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14 15.8 19,300 37.1 3,900 797	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10 17.8 27,000 19.3 6,640 851	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6 3.570 487
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-8-4 7440-50-8 7439-95-6 7439-95-4 7439-95-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	350 14 2.5 - 36 30 270 2000 400 - 2000 140	 16 400 72 4.3 180 270 400 2000 310	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782 25.8 1,570	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3 2,200	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26 1,440	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618 15	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584 25.7	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598 24.4 1,310	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14 15.8 19,300 37.1 3.900 797 21 1,510	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10 17.8 27,000 19.3 6.640 851 19.9	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8 1,230	0.264 J 6.08 51.9 0.66 0.191 J 3,470 11.4 5.7 11.8 14,700 30.6 3,570 487 13.5 673
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-98-6 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-02-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	350 14 2.5 - 36 30 270 2000 400 - 2000 140 - 36	16 400 72 4.3 180 2000 310 180	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782 25.8 1,570 0.585 J	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3 2,200 0,209 J	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26 1,440 0.428 J	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21 1,300 0.425 J	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618 15 759	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584 25.7 1,780 0.567 J	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598 24.4 1,310 0.585 J	0.247 J 5.78 97 0.607 0.166 J 2,370 15.5 9.14 15.8 19,300 37.1 3,900 797 21 1,510 0.454 J	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10 17.8 27,000 19.3 6,640 851 19.9 1,990 0.223 J	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8 1,230 0.601 J	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6 3.570 487 13.5 673 0.585 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	350 14 2.5 - 36 30 270 2000 400 - 2000 140	 16 400 72 4.3 180 270 400 2000 310	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782 25.8 1,570 0.585 J 0.0996 J	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3 2,200 0.209 J 0.0328 J	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26 1,440 0.428 J 0.0503 J	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21 1,300 0.425 J 0.0606 J	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618 15 759 0.507 J 0.150 J	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584 25.7 1,780 0.567 J 0.0829 J	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598 24.4 1,310 0.585 J 0.139 J	0.247 J 5.78 97 0.607 0.166 J 2,370 15.5 9.14 15.8 19,300 37.1 3,900 797 21 1,510 0.454 J 0.114 J	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10 17.8 27,000 19.3 6,640 851 19.9 1,990 0.223 J 0.0399 J	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8 1,230 0.601 J 0.142 J	0.264 J 6.08 51.9 0.66 0.191 J 3,470 11.4 5.7 11.8 14,700 30.6 3,570 487 13.5 673 0.585 J 0.156 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	350 14 2.5 - 36 30 270 2000 400 - 2000 140 - 36	16 400 72 4.3 180 2000 310 180 180 180	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782 25.8 1,570 0.585 J 0.0996 J 49.8 J	0.123 J 6.6 83.8 0.826 0.117 J 1.570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3 2,200 0,209 J 0,0328 J 58.0 J	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26 1,440 0.428 J 0.0503 J 43.7 J	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21 1,300 0.425 J 0.0606 J 40.0 J	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618 15 759 0.507 J 0.150 J 40.0 J	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584 25.7 1,780 0.567 J 0.0829 J 53.3 J	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598 24.4 1,310 0.585 J 0.139 J	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14 15.8 19,300 37.1 3,900 797 21 1,510 0.454 J 0.114 J 52.3 J	0.242 J 5.66 62.3 0.661 0.148 J 2,830 18.1 10 17.8 27,000 19.3 6,640 851 19.9 1,990 0.223 J 0.0399 J 54.2 J	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8 1,230 0.601 J 0.142 J 43.6 J	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6 3.570 487 13.5 673 0.585 J 0.156 J 31.1 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180 180 180	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782 25.8 1,570 0.585 J 0.0996 J 49.8 J 0.202 J	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3 2,200 0,209 J 0,0328 J 58.0 J 0,123 J	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26 1,440 0.428 J 0.0503 J 43.7 J 0.156 J	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21 1,300 0.425 J 0.0606 J 40.0 J 0.153 J	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618 15 759 0.507 J 0.150 J 40.0 J	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584 25.7 1,780 0.567 J 0.0829 J 53.3 J 0.174 J	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598 24.4 1,310 0.585 J 0.139 J 49.4 J	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14 15.8 19,300 37.1 3,900 797 21 1.510 0.454 J 0.114 J 52.3 J 0.129 J	0.242 J 5.66 62.3 0.661 0.148 J 2.830 18.1 10 17.8 27,000 19.3 6.640 851 19.9 1.990 0.223 J 0.0399 J 54.2 J 0.136 J	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8 1,230 0.601 J 0.142 J 43.6 J	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6 3.570 487 13.5 673 0.585 J 0.156 J 31.1 J 0.132 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 2	13 350 7.2 2.5 30 50 1600 30 1600 30 1 2	350 14 2.5 - 36 30 270 2000 400 - 2000 140 - 36		0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782 25.8 1,570 0.585 J 0.0996 J 49.8 J	0.123 J 6.6 83.8 0.826 0.117 J 1.570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3 2,200 0,209 J 0,0328 J 58.0 J	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26 1,440 0.428 J 0.0503 J 43.7 J	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21 1,300 0.425 J 0.0606 J 40.0 J	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2,630 618 15 759 0.507 J 0.150 J 40.0 J	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584 25.7 1,780 0.567 J 0.0829 J 53.3 J	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598 24.4 1,310 0.585 J 0.139 J	0.247 J 5.78 97 0.607 0.166 J 2.370 15.5 9.14 15.8 19,300 37.1 3,900 797 21 1,510 0.454 J 0.114 J 52.3 J	0.242 J 5.66 62.3 0.661 0.148 J 2,830 18.1 10 17.8 27,000 19.3 6,640 851 19.9 1,990 0.223 J 0.0399 J 54.2 J	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8 1,230 0.601 J 0.142 J 43.6 J	0.264 J 6.08 51.9 0.66 0.191 J 3,470 11.4 5.7 11.8 14,700 30.6 3,570 487 13.5 673 0.585 J 0.156 J 31.1 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-22-0 7440-62-2	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	350 14 2.5 - 36 30 270 2000 400 - 2000 140 - 36 36 36 100	16 400 72 4.3 180 2000 310 180 180 180 1- 180 180	0.290 J 7.48 87.4 0.882 0.152 J 846 20.9 12.1 20.6 24,000 35.8 4,850 782 25.8 1,570 0.585 J 0.0996 J 49.8 J 0.202 J	0.123 J 6.6 83.8 0.826 0.117 J 1,570 21.3 13.1 25.8 29,300 E 16.7 5,730 639 27.3 2,200 0.209 J 0.0328 J 58.0 J 0.123 J 27.4	6.4 84.9 0.8 0.165 J 1,430 20.1 11.2 19.2 27,200 27.9 5,300 864 26 1,440 0.428 J 0.0503 J 43.7 J 0.156 J 31.7	0.183 J 5.1 71 0.685 0.153 J 814 17.5 15.8 17.5 22,000 30.8 4,190 691 21 1,300 0.425 J 0.0606 J 40.0 J 0.153 J 33.1	0.289 J 6.15 60 0.648 0.167 J 765 12.1 6.28 10.8 15,000 34.9 2.630 618 15 759 0.507 J 0.150 J 40.0 J 0.129 J 32.8	0.416 J 8.75 58.4 0.797 0.168 J 799 19.4 11.7 19.6 29,000 55 6,200 584 25.7 1,780 0.567 J 0.0829 J 53.3 J 0.174 J 41.7	0.273 J 7.64 99.7 1.06 0.111 J 1,040 19.7 9.06 16.4 24,100 44.9 4,600 598 24.4 1,310 0.585 J 0.139 J 49.4 J 0.204 45.4	0.247 J 5.78 97 0.607 0.166 J 2,370 15.5 9.14 15.8 19,300 37.1 3,900 797 21 1,510 0.454 J 0.114 J 52.3 J 0.129 J 31.8	0.242 J 5.66 62.3 0.661 0.148 J 2,830 18.1 10 17.8 27,000 19.3 6,640 851 19.9 1,990 0.223 J 0.0399 J 54.2 J 0.136 J 27.6	0.39 J 7.42 129 0.886 0.346 4,850 16.5 9.84 20.5 24,400 45.8 4,600 1,320 23.8 1,230 0.601 J 0.142 J 43.6 J 0.145 J 33.6	0.264 J 6.08 51.9 0.66 0.191 J 3.470 11.4 5.7 11.8 14,700 30.6 3.570 487 13.5 673 0.585 J 0.156 J 31.1 J 0.132 J 24.5

--: Not applicable

SCO: Soil Cleanup Objective

POG: Protection of Groundwater

PER: Protection of Ecological Resources < : Not detected at the laboratory method detection limit.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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						OU1EESB45	OU1EESB46	OU1EESB47	OU1EESB48	OU1EESB49	OU1EESB50	OU1EESB51	OU1EESB52	OU1EESB53	OU1EESB54	OU1EESB55
Sample Da	ate						5/31/2017	5/25/2017	5/25/2017	5/25/2017	6/1/2017	5/24/2017	5/24/2017	5/25/2017	5/25/2017	5/25/2017	5/26/2017
Field Sample				Unrestricted			170531	170525	170525	170525	170601	170524	170524	170525	170525	170525	170526
Depth Interv		075 0 0(1-) 0	075 0 0(1) 0	Use Soil		.8(b) & CP-	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17
Sample Purpo Parameter Name	se Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	375-6.8(b) & CP- 51 Re 51 Residential Res	stricted	REG										
mivolatile Organic Compounds				,,	,			'		·				'		<u>'</u>	
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
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
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
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
,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
,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
,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
,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
,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
,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
-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
-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
-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
-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
-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
-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'-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
-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
1,6-Dinitro-2-methylphenol (4,6-Dinitro-o-creso		-		-	-	-	< 0.25	< 0.18	< 0.24	< 0.23	< 0.26	< 0.21	< 1.4	< 0.22	< 0.23	< 0.26	< 0.23
1-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
1-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
1-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
1-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
I-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
-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
cenaphthene	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
cenaphthylene	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
cetophenone	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
ois(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
ois(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
ois(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
ois(2-Ethylhexyl)phthalate	117-81-7	435	239		50		< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
Butylbenzylphthalate	85-68-7	122			100		< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
Caprolactam	105-60-2	-			-		< 0.049	< 0.037	< 0.048	< 0.045	< 0.052	< 0.042	< 0.28	< 0.044	< 0.046	< 0.051	< 0.045
Carbazole	86-74-8	-			-		< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
Chrysene	218-01-9	1		1	1	3.9	0.052	0.064	0.031	0.052	0.066	0.018 J	0.054 J	0.024	0.029	0.038	0.032
Di-n-butylphthalate	84-74-2	8.1	0.01		100		< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
Di-n-octylphthalate	117-84-0	120			100		< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
bibenz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	0.007 J	0.016 J	< 0.005	0.008 J	< 0.005	< 0.004	< 0.028	0.005 J	0.005 J	< 0.005	< 0.005
Dibenzofuran	132-64-9	6.20		7		59	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
hiethylphthalate	84-66-2	7.1	100		100	-	< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
imethyl phthalate	131-11-3	27	200		100		< 0.099	< 0.073	< 0.096	< 0.09	< 0.1	< 0.084	< 0.56	< 0.089	< 0.093	< 0.1	< 0.09
iphenyl (Biphenyl, Phenyl benzene)	92-52-4	-	60				< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
luoranthene	206-44-0	1000		100	100	100	0.08	0.11	0.047	0.081	0.11	0.03	0.076 J	0.042	0.046	0.06	0.051
luorene	86-73-7	386	30	30	100	100	< 0.005	0.004 J	0.005 J	0.005 J	< 0.005	< 0.004	< 0.028	< 0.004	< 0.005	< 0.005	< 0.005
lexachlorobenzene	118-74-1	1.4		0.33	0.33	1.2	< 0.005	< 0.004	< 0.005	< 0.004	< 0.005	< 0.004	< 0.028	< 0.004	< 0.005	< 0.005	< 0.005
exachlorobutadiene	87-68-3	-			-	-	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
exachlorocyclopentadiene	77-47-4	-	10		-	-	< 0.25	< 0.18	< 0.24	< 0.23	< 0.26	< 0.21	< 1.4	< 0.22	< 0.23	< 0.26	< 0.23
exachloroethane	67-72-1	-			-	-	< 0.049	< 0.037	< 0.048	< 0.045	< 0.052	< 0.042	< 0.28	< 0.044	< 0.046	< 0.051	< 0.045
deno(1,2,3-cd)Pyrene	193-39-5	8.2		0.5	0.5	0.5	0.027	0.049	0.013 J	0.029	0.041	0.013 J	< 0.028	0.014 J	0.016 J	0.022 J	0.019 J
sophorone	78-59-1	4.4			100	-	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
-Nitrosodi-n-propylamine	621-64-7	-		-	-		< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
-Nitrosodiphenylamine (Diphenylamine)	86-30-6	-	20		-	-	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
aphthalene	91-20-3	12		12	100	100	0.008 J	0.008 J	0.014 J	0.012 J	0.019 J	< 0.004	< 0.028	0.006 J	0.008 J	< 0.005	0.008 J
trobenzene	98-95-3	0.17	40		3.7	15	< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
Chloro-m-cresol	59-50-7	-			-		< 0.025	< 0.018	< 0.024	< 0.023	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.049	< 0.037	< 0.048	< 0.045	< 0.052	< 0.042	< 0.28	< 0.044	< 0.046	< 0.051	< 0.045
Phenanthrene	85-01-8	1000		100		100	0.043	0.053	0.026	0.047	0.057	0.017 J	0.044 J	0.027	0.024	0.032	0.026
Phenol	108-95-2	0.33	30	0.33		100	< 0.025	< 0.018	< 0.024	0.13	< 0.026	< 0.021	< 0.14	< 0.022	< 0.023	< 0.026	< 0.023
yrene	129-00-0	1000		100		100	0.068	0.097	0.042	0.08	0.1	0.031	0.077 J	0.042	0.039	0.058	0.047



Location Sample Da Field Sample Depth Interv Sample Purpo: Parameter Name	ate ID val	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP	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
Polychlorinated Biphenyls	Code	CF-51 FOG	CF-51 FER	Objectives	31 Residential	Restricted					<u> </u>				<u> </u>		
Aroclor 1016	12674-11-2						< 0.0053										
Aroclor 1221	11104-28-2	_				-	< 0.0067					_					
Aroclor 1221	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	60-57-1 959-98-8	0.1 102	0.006	0.005 2.4	0.039 4.8	0.2 24	< 0.00059 V			-	-	-		-	-		
Endosulfan I Endosulfan II	33213-65-9		-		4.8		< 0.00032					-					
ENDOSULFAN SULFATE	1031-07-8	102 1000	-	2.4	4.8	24 24	< 0.00049 < 0.00049							-	-		
ENDRIN SOLFATE	72-20-8	0.06	0.01	0.014	2.2	11	< 0.00049			-	-	-		-	-	-	
ENDRIN ALDEHYDE	7421-93-4	0.00	0.01	0.014			< 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 Chromium	7440-70-2 7440-47-3		10000	20	36	180	1,330 12.8	14,900 16.2	2,730	1,960 14.2	5,340	1,830 16.7	1,340 26.8	572	2,280	664	802 25.7
	7440-47-3			30					11.1		14.1			13.9	21.8	26.1	
Cobalt Copper	7440-48-4	1720	20 50	50	30 270	270	6.99 13.3	11.3 21.2	5.66 12.6	7.17 14.4	7.21 17.5	7.7 16.9	13.8 23.7	7.29 15.1	8.48 16.9	12.8 21.8	16.2 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	7439-99-0	450	63	63	400	400	44.2	25,300	31.6	40.8	47.9	22.2	40.3	24.4	22.2	35.1	36.3
Magnesium	7439-95-4	430					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	<u>2,620</u>
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
Notes:		U	I	В	BI	Ye											

--: Not applicable

SCO: Soil Cleanup Objective

POG: Protection of Groundwater

PER: Protection of Ecological Resources < : Not detected at the laboratory method detection limit.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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 I	ID						OU1EESB56	OU1EESB57	OU1EESB58	OU1EESB59	OU1EESB60	OU1EESB61	OU1EESB62	OU1EESB63	OU1EESB64	OU1EESB65	OU1EESB66
Sample Da				Harrist date d			5/26/2017	5/30/2017	5/26/2017	5/26/2017	5/30/2017	6/1/2017	6/1/2017	5/31/2017	5/31/2017	5/31/2017	5/31/2017
Field Sample I Depth Interv				Unrestricted Use Soil		375-6.8(b) & CP-	170526 0-0.17	170530 0-0.17	170526 0-0.17	170526 0-0.17	170530 0-0.17	170601 0-0.17	170601 0-0.17	170531 0-0.17	170531 0-0.17	170531 0-0.17	170531 0-0.17
Sample Purpos	se Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	375-6.8(b) & CP	51 Residential-	REG										
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	51 Residential	Restricted											
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
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
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
,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
,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
-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
-Dimethylphenol -Dinitrophenol	105-67-9 51-28-5	0.2	20		100		< 0.029 < 0.52	< 0.026 < 0.48	< 0.027 < 0.48	< 0.04 < 0.72	< 0.032 < 0.57	< 0.025 < 0.45	< 0.026 < 0.48	< 0.022 < 0.4	< 0.021 < 0.38	< 0.022 < 0.4	< 0.031 < 0.56
-Dinitrotoluene	121-14-2						< 0.11	< 0.11	< 0.40	< 0.16	< 0.13	< 0.45	< 0.40	< 0.089	< 0.085	< 0.09	< 0.13
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
hloronaphthalene	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
hlorophenol (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
1ethyl-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
lethylphenol (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
litroaniline (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
itrophenol (o-Nitrophenol) -Dichlorobenzidine	88-75-5 91-94-1	0.3	7	-			< 0.029 < 0.17	< 0.026 < 0.16	< 0.027 < 0.16	< 0.04 < 0.24	< 0.032 < 0.19	< 0.025 < 0.15	< 0.026 < 0.16	< 0.022 < 0.13	< 0.021 < 0.13	< 0.022 < 0.13	< 0.031 < 0.19
Vitroaniline	99-09-2	0.5	-	-	_		< 0.17	< 0.16	< 0.16	< 0.16	< 0.19	< 0.15	< 0.16	< 0.089	< 0.13	< 0.13	< 0.19
		1															
6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol		-	-	-	-		< 0.29	< 0.26	< 0.27	< 0.4	< 0.32	< 0.25	< 0.26	< 0.22	< 0.21	< 0.22	< 0.31
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
Chloroaniline Chlorophenyl phenyl ether	106-47-8 7005-72-3	0.22			100		< 0.057 < 0.029	< 0.053 < 0.026	< 0.053 < 0.027	< 0.08 < 0.04	< 0.063 < 0.032	< 0.051 < 0.025	< 0.053 < 0.026	< 0.044 < 0.022	< 0.043 < 0.021	< 0.045 < 0.022	< 0.063 < 0.031
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
Vitroaniline	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
itrophenol	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
enaphthene	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
enaphthylene	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
etophenone	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
hracene	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
azine	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
nzaldehyde nzo(a)anthracene	100-52-7 56-55-3	1					< 0.11 0.023 J	0.14 J 0.03	0.18 J 0.033	< 0.16 < 0.008	0.16 J 0.052	0.14 J 0.029	0.17 J 0.019 J	< 0.089 0.029	< 0.085 0.027	< 0.09 0.029	0.3 J 0.05
nzo(a)pyrene	50-33-8	22	2.6	1	1	1	0.023 3	0.053	0.042	< 0.008	0.032	0.029	0.019 J	0.029	0.027	0.029	0.065
nzo(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
nzo(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
nzo(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
(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
(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
(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
(2-Ethylhexyl)phthalate	117-81-7	435	239	-	50		< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
ylbenzylphthalate prolactam	85-68-7 105-60-2	122			100		< 0.11 < 0.057	< 0.11 < 0.053	< 0.11 < 0.053	< 0.16 < 0.080	< 0.13 < 0.063	< 0.1 < 0.051	< 0.11 < 0.053	< 0.089 < 0.044	< 0.085 < 0.043	< 0.09 < 0.045	< 0.13 < 0.063
rbazole	86-74-8	-		-		-	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.003
rysene	218-01-9	1		1	1	3.9	0.035	0.054	0.055	< 0.008	0.07	0.046	0.034	0.046	0.047	0.042	0.099
n-butylphthalate	84-74-2	8.1	0.01	-	100	-	< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
n-octylphthalate	117-84-0	120			100		< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
enz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.006	0.006 J	< 0.005	< 0.008	0.01 J	< 0.005	< 0.005	0.006 J	0.006 J	0.007 J	0.013 J
enzofuran	132-64-9	6.20		7	14	59	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
thylphthalate	84-66-2	7.1	100	-	100		< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
ethyl phthalate	131-11-3	27	200		100		< 0.11	< 0.11	< 0.11	< 0.16	< 0.13	< 0.1	< 0.11	< 0.089	< 0.085	< 0.09	< 0.13
henyl (Biphenyl, Phenyl benzene)	92-52-4 206-44-0	1000	60	100	100	100	< 0.029	< 0.026	< 0.027	< 0.040	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
pranthene	86-73-7	1000 386	30	100 30	100 100	100 100	0.059 < 0.006	0.081 < 0.005	0.083 < 0.005	< 0.008 < 0.008	0.095 < 0.006	0.074 < 0.005	0.059 < 0.005	0.072 < 0.004	0.072 < 0.004	0.069 < 0.004	0.15 0.008 J
achlorobenzene	118-74-1	1.4		0.33	0.33	1.2	< 0.006	< 0.005	< 0.005	< 0.008	< 0.006	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.006
achlorobutadiene	87-68-3						< 0.029	< 0.026	< 0.003	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.000
chlorocyclopentadiene	77-47-4		10		-		< 0.29	< 0.26	< 0.27	< 0.4	< 0.32	< 0.25	< 0.26	< 0.22	< 0.21	< 0.22	< 0.31
chloroethane	67-72-1	-			-		< 0.057	< 0.053	< 0.053	< 0.08	< 0.063	< 0.051	< 0.053	< 0.044	< 0.043	< 0.045	< 0.063
o(1,2,3-cd)Pyrene	193-39-5	8.2		0.5	0.5	0.5	0.022 J	0.03	0.029	< 0.008	0.043	0.026	0.018 J	0.024	0.024	0.023	0.054
orone	78-59-1	4.4			100		< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
rosodi-n-propylamine	621-64-7	-		-	-		< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
rosodiphenylamine (Diphenylamine)	86-30-6		20				< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
nthalene	91-20-3	12		12	100	100	0.006 J	0.009 J	0.018 J	0.095	0.009 J	0.23	0.007 J	0.007 J	0.006 J	0.007 J	0.046
benzene	98-95-3	0.17	40		3.7	15	< 0.029	< 0.026	< 0.027	< 0.04	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
nloro-m-cresol achlorophenol	59-50-7 87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.029 < 0.057	< 0.026 < 0.053	< 0.027 < 0.053	< 0.04 < 0.08	< 0.032 < 0.063	< 0.025 < 0.051	< 0.026 < 0.053	< 0.022 < 0.044	< 0.021 < 0.043	< 0.022 < 0.045	< 0.031 < 0.063
nanthrene	87-86-5 85-01-8	1000	0.8	100	100	100	0.057	0.045	0.046	< 0.08	0.045	0.051	0.034	0.043	0.043	0.045	0.063
enol	108-95-2	0.33	30	0.33	100	100	< 0.029	< 0.026	< 0.027	< 0.008	< 0.032	< 0.025	< 0.026	< 0.022	< 0.021	< 0.022	< 0.031
ene	129-00-0	1000		100	100	100	0.054	0.078	0.076	0.009 J	0.1	0.073	0.053	0.068	0.067	0.064	0.14



Sam Field S: Depth Sample	Interval Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-		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
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	51 Residential	Restricted											<u> </u>
Polychlorinated Biphenyls	1																
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		0.06	0.01	0.014			-	-	-	-	-	-	-				
ENDRIN KETONE	7421-93-4 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												<u> </u>					
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	12 13	13	16	16	0.360 J 7.85	0.648 9.95	8.43	9.55	7.53	9.16	5.2	7.59	0.615 8.98	0.355 J 7.18	10.8
Arsenic Barium	7440-38-2 7440-39-3	16 820	12	13 350			0.360 J	0.648	8.43 86.7				5.2 84.3	7.59 49.2	0.615	0.355 J 7.18 65.2	10.8 69.3
Barium	7440-38-2	16 820 47	12 13	13 350 7.2	16 350 14	16	0.360 J 7.85	0.648 9.95	8.43	9.55 173 1.36	7.53	9.16	5.2	7.59 49.2 0.745	0.615 8.98	0.355 J 7.18	10.8
Barium Beryllium	7440-38-2 7440-39-3	16 820	12 13 433	13 350	16 350	16 400	0.360 J 7.85 122	0.648 9.95 106	8.43 86.7	9.55 173	7.53 147	9.16 165	5.2 84.3	7.59 49.2	0.615 8.98 54.8	0.355 J 7.18 65.2	10.8 69.3
Barium Beryllium Cadmium	7440-38-2 7440-39-3 7440-41-7	16 820 47	12 13 433 10	13 350 7.2	16 350 14	16 400 72	0.360 J 7.85 122 1.01	0.648 9.95 106 1.14	8.43 86.7 0.949	9.55 173 1.36	7.53 147 1.21	9.16 165 2.13	5.2 84.3 0.548	7.59 49.2 0.745	0.615 8.98 54.8 0.84	0.355 J 7.18 65.2 0.776	10.8 69.3 0.796
Barium Beryllium Cadmium Calcium	7440-38-2 7440-39-3 7440-41-7 7440-43-9	16 820 47 7.50	12 13 433 10 4	13 350 7.2 2.5	16 350 14 2.5	16 400 72 4.3	0.360 J 7.85 122 1.01 0.221 J	0.648 9.95 106 1.14 0.259	8.43 86.7 0.949 0.115 J	9.55 173 1.36 0.223 J	7.53 147 1.21 0.33	9.16 165 2.13 0.168 J	5.2 84.3 0.548 0.250 J	7.59 49.2 0.745 0.0532 J	0.615 8.98 54.8 0.84 0.0974 J	0.355 J 7.18 65.2 0.776 0.15 J	10.8 69.3 0.796 0.156 J
Barium Beryllium Cadmium Calcium Chromium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	16 820 47 7.50	12 13 433 10 4	13 350 7.2 2.5	16 350 14 2.5	16 400 72 4.3	0.360 J 7.85 122 1.01 0.221 J 3,300	0.648 9.95 106 1.14 0.259 3,100	8.43 86.7 0.949 0.115 J 751	9.55 173 1.36 0.223 J 2,810	7.53 147 1.21 0.33 3,710	9.16 165 2.13 0.168 J 2,440	5.2 84.3 0.548 0.250 J 2,900	7.59 49.2 0.745 0.0532 J 630	0.615 8.98 54.8 0.84 0.0974 J 477	0.355 J 7.18 65.2 0.776 0.15 J 448	10.8 69.3 0.796 0.156 J 1,310
Barium Beryllium Cadmium Calcium Chromium Cobalt	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	16 820 47 7.50	12 13 433 10 4 10000	13 350 7.2 2.5 30	16 350 14 2.5 36	16 400 72 4.3 180	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9	0.648 9.95 106 1.14 0.259 3,100 24.2	8.43 86.7 0.949 0.115 J 751 23.5	9.55 173 1.36 0.223 J 2,810 19.8	7.53 147 1.21 0.33 3,710 20	9.16 165 2.13 0.168 J 2,440 28.8	5.2 84.3 0.548 0.250 J 2,900 14.5	7.59 49.2 0.745 0.0532 J 630 34.7	0.615 8.98 54.8 0.84 0.0974 J 477 25.1	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3	10.8 69.3 0.796 0.156 J 1,310 21.7
Barium Beryllium Cadmium Calcium Chromium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	16 820 47 7.50 	12 13 433 10 4 10000 20	13 350 7.2 2.5 30	16 350 14 2.5 36 30	16 400 72 4.3 180	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3	0.648 9.95 106 1.14 0.259 3,100 24.2 13.5	8.43 86.7 0.949 0.115 J 751 23.5	9.55 173 1.36 0.223 J 2,810 19.8 9.32	7.53 147 1.21 0.33 3,710 20 8.67	9.16 165 2.13 0.168 J 2,440 28.8 8.93	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67	7.59 49.2 0.745 0.0532 J 630 34.7 8.23	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	16 820 47 7.50 1720	12 13 433 10 4 10000 20	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270	16 400 72 4.3 180	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400	0.648 9.95 106 1.14 0.259 3,100 24.2 13.5 21.4	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	16 820 47 7.50 	12 13 433 10 4 10000 20 50	13 350 7.2 2.5 30	16 350 14 2.5 36 30 270 2000	16 400 72 4.3 180 270	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2	0.648 9.95 106 1.14 0.259 3,100 24.2 13.5 21.4 31,800 57	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400 	16 400 72 4.3 180 270 400	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440	0.648 9.95 106 1.14 0.259 3,100 24.2 13.5 21.4 31,800 57 6,410	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-6 7439-95-4 7439-95-4	16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	16 400 72 4.3 180 270 400	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060	0.648 9.95 106 1.14 0.259 3,100 24.2 13.5 21.4 31,800 57 6,410 978	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280 1,350	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860	5.2 84.3 0.548 0.250 J 2.900 14.5 5.67 15.5 15,700 38.5 3,410	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-5 7440-02-0	16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400 	16 400 72 4.3 180 270 400 2000 310	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5	0.648 9.95 106 1.14 0.259 3.100 24.2 13.5 21.4 31,800 57 6,410 978	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860 444 30.2	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687 18.7	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 - 36 30 270 2000 400 - 2000 140 -	16 400 72 4.3 180 270 400 2000 310	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5 2,430	0.648 9.95 106 1.14 0.259 3.100 24.2 13.5 21.4 31,800 57 6,410 978 30.7 2,200	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941 25.7 2,060	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4 1,820	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472 15.9 1,150	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695 17	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3.480 687 18.7	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559 17.3 1,330	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-68-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5 2,430 0.629 J	0.648 9.95 106 1.14 0.259 3,100 24.2 13.5 21.4 31,800 57 6,410 978 30.7 2,200 0.663 J	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941 25.7 2,060 0.585 J	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4 1,820 0.780 J	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3 1,470 0.632 J	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860 444 30.2 1,900 1	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472 15.9 1,150	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695 17 1,010 0.724 J	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687 18.7 994 0.762	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559 17.3 1,330 0.583 J	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9 1,660 1.05 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-68-8 7439-89-6 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5 2,430 0.629 J 0.0724 J	0.648 9.95 106 1.14 0.259 3,100 24.2 13.5 21.4 31,800 57 6,410 978 30.7 2,200 0.663 J 0.125 J	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941 25.7 2,060 0.585 J 0.106 J	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4 1,820 0.780 J 0.248 J	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3 1,470 0.632 J 0.162 J	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860 444 30.2 1,900 1	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472 15.9 1,150 0.504 J 0.147 J	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695 17 1,010 0.724 J 0.123 J	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687 18.7 994 0.762 0.169 J	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559 17.3 1,330 0.583 J 0.15 J	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9 1,660 1.05 J 0.238 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5 2,430 0.629 J 0.0724 J 83.9 J	0.648 9.95 106 1.14 0.259 3.100 24.2 13.5 21.4 31,800 57 6,410 978 30.7 2,200 0.663 J 0.125 J 52.5 J	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941 25.7 2,060 0.585 J 0.106 J 59.7 J	9.55 173 1.36 0.223 J 2.810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4 1,820 0.780 J 0.248 J 62.6 J	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3 1,470 0.632 J 0.162 J 49.1 J	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860 444 30.2 1,900 1 0.271 75.9 J	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472 15.9 1,150 0.504 J 0.147 J 50.2 J	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695 17 1,010 0.724 J 0.123 J 32.1 J	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687 18.7 994 0.762 0.169 J 36.2 J	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559 17.3 1,330 0.583 J 0.15 J	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9 1,660 1.05 J 0.238 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-38-2 7440-43-9 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36 	16 400 72 4.3 180 270 400 2000 310 180 180	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5 2,430 0.629 J 0.0724 J 83.9 J 0.191 J	0.648 9.95 106 1.14 0.259 3.100 24.2 13.5 21.4 31,800 57 6,410 978 30.7 2,200 0.663 J 0.125 J 52.5 J 0.217 J	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941 25.7 2,060 0.585 J 0.106 J 59.7 J 0.211 J	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4 1,820 0.780 J 0.248 J 62.6 J 0.213 J	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3 1,470 0.632 J 0.162 J 49.1 J 0.198 J	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860 444 30.2 1,900 1 0.271 75.9 J 0.289	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472 15.9 1,150 0.504 J 0.147 J 50.2 J 0.153 J	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695 17 1,010 0.724 J 0.123 J 32.1 J 0.176 J	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687 18.7 994 0.762 0.169 J 36.2 J 0.19	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559 17.3 1,330 0.583 J 0.15 J 40 J	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9 1,660 1.05 J 0.238 J 56 J 0.218 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-23-5 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 400 36 36 36 100	16 400 72 4.3 180 270 400 2000 310 180 180	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5 2,430 0.629 J 0.0724 J 83.9 J 0.191 J 38.6	0.648 9.95 106 1.14 0.259 3.100 24.2 13.5 21.4 31,800 57 6,410 978 30.7 2,200 0.663 J 0.125 J 52.5 J 0.217 J 51.1	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941 25.7 2,060 0,585 J 0,106 J 59.7 J 0,211 J 41.4	9.55 173 1.36 0.223 J 2.810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4 1,820 0.780 J 0.248 J 62.6 J 0.213 J 43.5	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3 1,470 0.632 J 0.162 J 49.1 J 0.198 J 38.5	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860 444 30.2 1,900 1 0.271 75.9 J 0.289 50.7	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472 15.9 1,150 0.504 J 0.147 J 50.2 J 0.153 J 27.8	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695 17 1,010 0.724 J 0.123 J 32.1 J 0.176 J 32.2	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687 18.7 994 0.762 0.169 J 36.2 J 0.19 35.1	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559 17.3 1,330 0.583 J 0.15 J 40 J 0.164 J 31.3	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9 1,660 1.05 J 0.238 J 56 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-38-2 7440-43-9 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36 	16 400 72 4.3 180 270 400 2000 310 180 180	0.360 J 7.85 122 1.01 0.221 J 3,300 32.9 10.3 19.5 27,400 33.2 5,440 1,060 25.5 2,430 0.629 J 0.0724 J 83.9 J 0.191 J	0.648 9.95 106 1.14 0.259 3.100 24.2 13.5 21.4 31,800 57 6,410 978 30.7 2,200 0.663 J 0.125 J 52.5 J 0.217 J	8.43 86.7 0.949 0.115 J 751 23.5 12 20.8 28,400 41.5 5,460 941 25.7 2,060 0.585 J 0.106 J 59.7 J 0.211 J	9.55 173 1.36 0.223 J 2,810 19.8 9.32 19.3 22,600 54.7 4,280 1,350 27.4 1,820 0.780 J 0.248 J 62.6 J 0.213 J	7.53 147 1.21 0.33 3,710 20 8.67 19.1 21,500 52.5 4,230 1,510 23.3 1,470 0.632 J 0.162 J 49.1 J 0.198 J	9.16 165 2.13 0.168 J 2,440 28.8 8.93 26.9 28,100 50.4 4,860 444 30.2 1,900 1 0.271 75.9 J 0.289	5.2 84.3 0.548 0.250 J 2,900 14.5 5.67 15.5 15,700 38.5 3,410 472 15.9 1,150 0.504 J 0.147 J 50.2 J 0.153 J	7.59 49.2 0.745 0.0532 J 630 34.7 8.23 15.3 25,200 38.6 4,540 695 17 1,010 0.724 J 0.123 J 32.1 J 0.176 J	0.615 8.98 54.8 0.84 0.0974 J 477 25.1 7.93 16.2 20,700 43.2 3,480 687 18.7 994 0.762 0.169 J 36.2 J 0.19	0.355 J 7.18 65.2 0.776 0.15 J 448 24.3 7.41 15.4 18,700 36.5 3,450 559 17.3 1,330 0.583 J 0.15 J 40 J	10.8 69.3 0.796 0.156 J 1,310 21.7 8.14 22.5 25,800 65.2 4,160 508 21.9 1,660 1.05 J 0.238 J 56 J 0.218 J

--: Not applicable

SCO: Soil Cleanup Objective

POG: Protection of Groundwater

PER: Protection of Ecological Resources < : Not detected at the laboratory method detection limit.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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



Locatio	on ID						OU1EESB67	OU1EESB68	OU1EESB69	OU1EFSB01	OU1EFSB02	OU1EFSB03	OU1EFSB04	OU1EFSB05	OU1EFSB06	OU1EFSB07	OU1EFSB08
Sample I							6/1/2017	5/26/2017	5/31/2017	6/5/2017	6/2/2017	6/2/2017	6/5/2017	6/2/2017	6/2/2017	6/2/2017	6/2/2017
Field Samp	le ID			Unrestricted			170601	170526	170531	170605	170602	170602	170605	170602	170602	170602	170602
Depth Inte		075 000 0	0== 0 0 (1) 0	Use Soil		75-6.8(b) & CP	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17
Sample Purp Parameter Name	pose Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	375-6.8(b) & CP-5	Residential-	REG	REG	REG	REG	REG						
nivolatile Organic Compounds	Oode	0. 000	OF STIER	Objectives	or residential	Restricted		<u> </u>		<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	-
,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
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
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
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
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
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
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
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
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
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
-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
-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
-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
-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
-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
-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'-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
-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
							0										
I,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cre		-		-	-		< 0.23	< 0.27	< 0.23	< 0.23	< 0.24	< 0.24	< 0.25	< 0.2	< 0.28	< 0.25	< 0.23
I-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
I-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
I-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
I-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
-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
-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
cenaphthene	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
cenaphthylene	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
cetophenone	98-86-2 120-12-7	4000	-				< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
Anthracene		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 50-32-8	22	2.6	1	1	1	0.015 J 0.019 J	0.01 J 0.014 J	0.019 J	0.028 0.033	0.012 J	0.008 J 0.009 J	< 0.005	0.15 0.12	0.018 J	0.041	0.008 J 0.01 J
Benzo(a)pyrene Benzo(b)fluoranthene	205-99-2		2.0	1	1	1			0.024		0.015 J		0.006 J		0.023 J		
		1.70 1000		100	100	100	0.028 0.014 J	0.022 J 0.01 J	0.039 0.017 J	0.049 0.029	0.025	0.015 J 0.008 J	0.009 J < 0.005	0.18 0.082	0.046 0.022 J	0.083	0.012 J 0.006 J
Benzo(g,h,i)perylene Benzo(k)fluoranthene	191-24-2 207-08-9	1.7		0.8	100	3.9	0.014 J				0.012 J	0.008 J		0.067		0.041	
bis(2-Chloroethoxy)methane	111-91-1		-	U.8 	1	3.9	< 0.023	0.009 J < 0.027	0.016 J < 0.023	0.023 J < 0.023	0.012 J < 0.024	< 0.024	< 0.005 < 0.025	< 0.02	0.014 J < 0.028	< 0.025	0.006 J < 0.023
pis(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
pis(2-chloroisopropyl) ether	108-60-1	-			-	-	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024		< 0.02	< 0.028	< 0.025	< 0.023
sis(2-Ethylhexyl)phthalate	117-81-7	435	239	-	50	-	< 0.023	< 0.11	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025 < 0.099	< 0.082	< 0.11	< 0.025	< 0.023
Butylbenzylphthalate	85-68-7	122			100		< 0.091	< 0.11	< 0.09	< 0.092	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
Caprolactam	105-60-2						< 0.046	< 0.053	< 0.045	< 0.092	< 0.048	< 0.047	< 0.049	< 0.041	< 0.056	< 0.051	< 0.092
Carbazole	86-74-8	-				_	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	0.025 J	< 0.028	< 0.025	< 0.023
Chrysene	218-01-9	1	-	1	1	3.9	0.024	0.014 J	0.028	0.039	0.024 0.017 J	0.024 0.011 J	0.025 0.007 J	0.025 3	0.027 J	0.025	0.01 J
Di-n-butylphthalate	84-74-2	8.1	0.01		100	3.9	< 0.024	< 0.11	< 0.09	< 0.039	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
i-n-octylphthalate	117-84-0	120			100	-	< 0.091	< 0.11	< 0.09	< 0.092	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
bibenz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	< 0.005	< 0.005	< 0.005	0.006 J	< 0.005	< 0.005	< 0.005	0.025	< 0.006	0.01 J	< 0.092
ibenzofuran	132-64-9	6.20		7	14	59	< 0.003	< 0.005	< 0.003	< 0.023	< 0.024	< 0.003	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
Diethylphthalate	84-66-2	7.1	100		100		< 0.023	< 0.11	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.082	< 0.11	< 0.025	< 0.023
imethyl phthalate	131-11-3	27	200		100		< 0.091	< 0.11	< 0.09	< 0.092	< 0.096	< 0.094	< 0.099	< 0.082	< 0.11	< 0.1	< 0.092
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4		60	-		-	< 0.023	< 0.027	< 0.03	< 0.032	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
luoranthene	206-44-0	1000		100	100	100	0.039	0.027 J	0.049	0.078	0.026	0.016 J	0.008 J	0.29	0.048	0.1	0.017 J
luorene	86-73-7	386	30	30	100	100	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.29 0.018 J	< 0.006	0.006 J	< 0.005
lexachlorobenzene	118-74-1	1.4		0.33	0.33	1.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.006	< 0.005	< 0.005
exachlorobutadiene	87-68-3						< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
exachlorocyclopentadiene	77-47-4	_	10	-	-	-	< 0.23	< 0.27	< 0.23	< 0.23	< 0.24	< 0.24	< 0.25	< 0.2	< 0.28	< 0.25	< 0.23
exachloroethane	67-72-1	-		-	-		< 0.046	< 0.053	< 0.045	< 0.046	< 0.048	< 0.047	< 0.049	< 0.041	< 0.056	< 0.051	< 0.046
deno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	0.013 J	0.011 J	0.015 J	0.021 J	0.012 J	0.006 J	< 0.005	0.073	0.019 J	0.035	0.005 J
ophorone	78-59-1	4.4			100		< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
-Nitrosodi-n-propylamine	621-64-7		-	-		-	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
I-Nitrosodiphenylamine (Diphenylamine)	86-30-6		20		-		< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
laphthalene	91-20-3	12		12	100	100	0.008 J	< 0.005	0.006 J	0.005 J	0.007 J	< 0.005	< 0.025	0.007 J	0.009 J	0.007 J	< 0.005
itrobenzene	98-95-3	0.17	40		3.7	15	< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
Chloro-m-cresol	59-50-7	0.17					< 0.023	< 0.027	< 0.023	< 0.023	< 0.024	< 0.024	< 0.025	< 0.02	< 0.028	< 0.025	< 0.023
entachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.023	< 0.053	< 0.045	< 0.046	< 0.044	< 0.024	< 0.025	< 0.041	< 0.056	< 0.025	< 0.046
Phenanthrene	85-01-8	1000		100	100	100	0.025	0.015 J	0.025	0.041	0.013 J	0.007 J	< 0.005	0.22	0.026 J	0.057	0.008 J
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.025	0.015 J	< 0.023	< 0.023	< 0.024	< 0.024	< 0.005	< 0.02	0.026 J	< 0.025	< 0.023
	129-00-0	1000		100	100	100	0.037	0.035 J	0.044	0.067	0.024 0.022 J	0.015 J	0.007 J	0.27	0.029 3	0.025	0.016 J



Location Sample D. Field Sample Depth Inter Sample Purpo Parameter Name	ate : ID val	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CF 51 Residential		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 Aroclor 1221	12674-11-2 11104-28-2		-		-	-		< 0.0058 < 0.0074		< 0.005 < 0.0064	< 0.0052 < 0.0067	< 0.0051 < 0.0065	< 0.0053 < 0.0068	< 0.0045 < 0.0057	< 0.006 < 0.0077	< 0.0055 < 0.0071	< 0.005 < 0.0063
Aroclor 1221 Aroclor 1232	11104-28-2		-		-			< 0.0074		< 0.0064	< 0.0067	< 0.0065	< 0.0068	< 0.0057	< 0.0077	< 0.0071	< 0.0063
Aroclor 1232 Aroclor 1242	53469-21-9			-				< 0.0053	-	< 0.0046	< 0.012	< 0.0047	< 0.012	< 0.0099	< 0.0055	< 0.012	< 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 DIELDRIN	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
	60-57-1 959-98-8	0.1 102	0.006	0.005	0.039 4.8	0.2 24		< 0.00053		< 0.00046	0.0028 < 0.00032	0.00081 J	0.00089 J	0.00065 JP	< 0.00067 V	< 0.00077 V	< 0.00046
Endosulfan I	33213-65-9	102		2.4	4.8	24		< 0.00035 < 0.00053	-	< 0.00031 < 0.00046	< 0.00032	< 0.00031 < 0.00047	< 0.00033 < 0.00049	< 0.00027 < 0.00041	< 0.00036 < 0.00055	< 0.00034 < 0.0005	< 0.0003 < 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	0.00033	0.0017 JP	< 0.00046
ENDRIN ALDEHYDE	7421-93-4			0.014				< 0.00053	-	< 0.00046	< 0.00048	< 0.00047	< 0.00049	< 0.00041	0.0007 JP	0.0017 SI 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	< 0.021	< 0.017	< 0.023	< 0.021	< 0.019
Metals						<u> </u>		<u> </u>			<u> </u>						
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
Calaium	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 7440-47-3		10000	30	36	180	460 13.6	1,240 23.1	1,440 14.7	2,910 16.5	2,080 20.8	2,600 13.2	1,140 13.7	4,420 15.5	3,470 17.5	2,180 16.8	10,500 15.3
Cobalt	7440-47-3		20	30	30	180	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	<u>1.28</u>	0.0962 J	0.0562 J	0.171	0.121 J	0.141 J	0.0399 J
Notes:		U	1	В	BI	Ye											

--: Not applicable

SCO: Soil Cleanup Objective

POG: Protection of Groundwater
PER: Protection of Ecological Resources

< : Not detected at the laboratory method detection limit.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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					1		0111550000	0111550510	0111550044	0111550010
Sample Date							OU1EFSB09 6/5/2017	OU1EFSB10 6/5/2017	OU1EFSB11 6/5/2017	OU1EFSB12 6/5/2017
Field Sample ID				Unrestricted			170605	170605	170605	170605
Depth Interval				Use Soil		375-6.8(b) & CP-	0-0.17	0-0.17	0-0.17	0-0.17
Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	375-6 8(b) & CP	51 Residential-	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	51 Residential	Restricted	N.EO	1120	N.E.O	N.EO
Semivolatile Organic Compounds				<u> </u>						
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
	58-90-2				-		< 0.10	< 0.093	< 0.098	< 0.085
•	95-95-4	0.1	4		100		< 0.025	< 0.023	< 0.025	< 0.021
•	88-06-2		10				< 0.025	< 0.023	< 0.025	< 0.021
•		0.4	20		100	-	< 0.025	< 0.023		
•	120-83-2								< 0.025	< 0.021
	105-67-9				-		< 0.025	< 0.023	< 0.025	< 0.021
	51-28-5	0.2	20		100		< 0.45	< 0.42	< 0.44	< 0.38
	121-14-2				-		< 0.1	< 0.093	< 0.098	< 0.085
	606-20-2	0.17		-	1.03	-	< 0.025	< 0.023	< 0.025	< 0.021
	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
	88-74-4	0.4			-		< 0.025	< 0.023	< 0.025	< 0.021
	88-75-5	0.3	7		-		< 0.025	< 0.023	< 0.025	< 0.021
	91-94-1		-		_		< 0.15	< 0.14	< 0.15	< 0.13
.,	99-09-2	0.5			_		< 0.10	< 0.093	< 0.098	< 0.085
5 . 1.1.5 GHIII 10	-5 05 2	0.0	-	-	_		~ V.1	\ U.U33	\ U.U3U	\ U.UUJ
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1						< 0.25	< 0.23	< 0.25	< 0.21
	101-55-3				_		< 0.025	< 0.023	< 0.025	< 0.021
	106-47-8	0.22			100		< 0.05	< 0.046	< 0.049	< 0.043
	7005-72-3	0.22				-	< 0.05	< 0.046	< 0.049	< 0.043
				0.33		100				
	106-44-5	0.33			34		0.043 J	0.056	< 0.025	0.05
	100-01-6				-	-	< 0.1	< 0.093	< 0.098	< 0.085
•	100-02-7	0.1	7		-		< 0.25	< 0.23	< 0.25	< 0.21
·	83-32-9	98	20	20	100	100	0.011 J	< 0.005	< 0.005	0.017 J
	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
	205-99-2	1.70		1	1	1	0.13	0.071	0.07	0.25
	191-24-2	1000		100	100	100	0.066	0.034	0.032	0.12
(0),	207-08-9	1.7		0.8	1	3.9	0.056	0.022 J	0.022 J	0.097
	111-91-1				-	3.9	< 0.025	< 0.023	< 0.025	< 0.021
	111-44-4	-		-	-		< 0.025	< 0.023	< 0.025	< 0.021
	108-60-1				-		< 0.025	< 0.023	< 0.025	< 0.021
	117-81-7	435	239		50	-	< 0.1	< 0.093	< 0.098	< 0.085
	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
	117-84-0	120		-	100	-	< 0.1	< 0.093	< 0.098	< 0.085
	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
	84-66-2	7.1	100	-	100		< 0.1	< 0.093	< 0.098	< 0.085
• • • • • • • • • • • • • • • • • • • •	131-11-3	27	200		100		< 0.1	< 0.093	< 0.098	< 0.085
					100					
	92-52-4	4000	60				< 0.025	< 0.023	< 0.025	< 0.021
	206-44-0	1000		100	100	100	0.17	0.083	0.082	0.32
	86-73-7	386	30	30	100	100	< 0.005	< 0.005	< 0.005	0.017 J
	118-74-1	1.4		0.33	0.33	1.2	< 0.005	< 0.005	< 0.005	< 0.004
	87-68-3	-	-		-	-	< 0.025	< 0.023	< 0.025	< 0.021
	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
	78-59-1	4.4		-	100	-	< 0.025	< 0.023	< 0.025	< 0.021
	621-64-7	-			-		< 0.025	< 0.023	< 0.025	< 0.021
,	86-30-6		20		_		< 0.025	< 0.023	< 0.025	< 0.021
	91-20-3	12		12	100	100	0.012 J	0.042	0.01 J	0.014 J
	98-95-3	0.17	40		3.7	15	< 0.025	< 0.042	< 0.025	< 0.021
	59-50-7				- 24		< 0.025	< 0.023	< 0.025	< 0.021
•	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.05	< 0.046	< 0.049	< 0.043
	85-01-8	1000		100	100	100	0.099	0.053	0.04	0.18
	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



Parameter Nan	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose ne	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			0. 000	0. 0	0.0,000.100	011100100111101	11001110100				
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 Metals		8001-35-2				-		< 0.021	< 0.02	< 0.021	< 0.018
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		7440-30-2	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
		7440-02-0	130	30	30	140	310	22.3	21.5	20.9	52.2
Nickel		7440-09-7	-			-	-	1,580	1,860	1,350	1,450
Nickel Potassium		7782-49-2	4	3.9	3.9	36	180	0.504 J	0.357 J	0.432 J	0.229 J
				2	2	36	180	0.138 J	0.0785 J	0.107 J	0.0857 J
Potassium		7440-22-4	8.3					44.5 J	39.4 J	40.1 J	43.8 J
Potassium Selenium		7440-22-4 7440-23-5	8.3	-		-					
Potassium Selenium Silver						-	-	0.151 J	0.0957 J	0.134 J	0.0976 J
Potassium Selenium Silver Sodium		7440-23-5	-								
Potassium Selenium Silver Sodium Thallium		7440-23-5 7440-28-0		 5		-		0.151 J	0.0957 J	0.134 J	0.0976 J
Potassium Selenium Silver Sodium Thallium Vanadium		7440-23-5 7440-28-0 7440-62-2		 5 39		 100		0.151 J <i>60</i>	0.0957 J 31.8	0.134 J 34	0.0976 J 126

--: Not applicable

SCO: Soil Cleanup Objective

POG: Protection of Groundwater

PER: Protection of Ecological Resources < : Not detected at the laboratory method detection limit.

Result detected between the reporting limit and the method detection limit.
 Concentration difference between the primary and confirmation column >40%. The lower result is reported.
 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				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB01 5/23/2017 OU1EESB01-S-0.17- 0.17-0.5	OU1EESB01 5/23/2017 OU1EESB01-S-0.50- 0.5-1	OU1EESB01 5/23/2017 OU1EESB01-S-1.00- 1-2	OU1EESB02 5/23/2017 OU1EESB02-S-0.17- 0.17-0.5	OU1EESB02 5/23/2017 OU1EESB02-S-0.50- 0.5-1	OU1EESB02 5/23/2017 OU1EESB02-S-1.00- 1-2	OU1EESB03 5/24/2017 OU1EESB03-S-0.17- 0.17-0.5	OU1EESB03 5/24/2017 OU1EESB03-S-0.50- 0.5-1	OU1EESB03 5/24/2017 OU1EESB03-S-1.00- 1-2	OU1EESB04 6/1/2017 OU1EESB04-S-0.17- 0.17-0.5
Parameter Nam	Sample Purpose	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
/olatile Organic Compounds		Code	01-31100	OI-STILK	Objectives	Residential	Restricted	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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 (Fi	reon 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 (E	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-Dichloro	,	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							
Dischlorodifluoromethane (Freon		75-71-8	-	-		-		< 0.002	< 0.002	< 0.002							
Diisopropyl ether		108-20-3 637-92-3	-	-			-	< 0.001	< 0.001	< 0.0009							
Ethyl-t-butylether Ethylbenzene		037-92-3 100-41-4	1	-		30	41	< 0.001 < 0.001	< 0.001 < 0.001	< 0.0009 < 0.0009							
Isopropylbenzene		98-82-8	2.3			100		< 0.001	< 0.001	< 0.0009							
m,p-Xylenes		98-82-8 XYLENES-MP	2.3	-		100	-	< 0.001	< 0.001								
Methyl acetate		79-20-9	-	-		-	-	< 0.001	< 0.001	< 0.0009 < 0.002							
Methyl-t-butyl ether		1634-04-4	0.93		0.93	62	100	< 0.002	< 0.002	< 0.002							
Methylcyclohexane		1034-04-4	0.93	-	0.93			< 0.0005	< 0.0005	< 0.0009							
Methylene chloride (Dichlorome		75-09-2	0.05	12	0.05	51	100	< 0.001	< 0.001	< 0.0009							
o-Xylene	,	95-47-6	0.05		0.05			< 0.002	< 0.002	< 0.002	-			-			
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	< 0.009							
Tetrachloroethene		127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.019	< 0.009	-			-			
Toluene		108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.0009							
trans-1,2-Dichloroethene		156-60-5	0.7		0.19	100	100	< 0.001	< 0.001	< 0.0009							
trans-1,3-Dichloropropene		10061-02-6	0.19	-	0.19			< 0.001	< 0.001	< 0.0009							
Trichloroethene (Trichloroethyle		79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.0009							
Trichlorofluoromethane (Freon 1		75-69-4						< 0.001	< 0.001	< 0.003							
Vinyl chloride (Chloroethene)		75-09-4	0.02	-	0.02	0.21	0.9	< 0.002	< 0.002	< 0.002							
Xylene (total)		1330-20-7	1.60	0.26	0.02	100	100	< 0.001	< 0.001	< 0.0009							



Parameter Nam		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 Compoun 1,2,4,5-Tetrachlorobenzene		5-94-3						< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
1,4-Dioxane		23-91-1	0.1	0.1	0.1	9.8	13	< 0.12	< 0.016	< 0.11	< 0.02	< 0.021	< 0.12	< 0.022	< 0.12	< 0.02	< 0.021
2,3,4,6-Tetrachlorophenol		8-90-2	-	-		-		< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085
2,4,5-Trichlorophenol		5-95-4	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		8-06-2	-	10				< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
2,4-Dichlorophenol 2,4-Dimethylphenol		20-83-2 05-67-9	0.4	20		100		< 0.019 < 0.019	< 0.018 < 0.018	< 0.018 < 0.018	< 0.02 < 0.02	< 0.021 < 0.021	< 0.021 < 0.021	< 0.022 < 0.022	< 0.019 < 0.019	< 0.02 < 0.02	< 0.021 < 0.021
2,4-Dinitrophenol		1-28-5	0.2	20		100		< 0.019	< 0.33	< 0.32	< 0.36	< 0.021	< 0.021	< 0.39	< 0.35	< 0.35	< 0.38
2,4-Dinitrotoluene		21-14-2	-					< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085
2,6-Dinitrotoluene		06-20-2	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		1-58-7						< 0.008	< 0.007	< 0.007	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008
2-Chlorophenol (o-Chlorophenol)		5-57-8		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 2-Methylphenol (o-Cresol)		1-57-6 15-48-7	36.4 0.33	-	0.33	0.41 100	100	0.011 J < 0.019	0.01 J < 0.018	0.008 J < 0.018	0.009 J < 0.02	< 0.004 < 0.021	< 0.004 < 0.021	0.006 J < 0.022	< 0.004 < 0.019	< 0.004 < 0.02	< 0.004 < 0.021
2-Nitroaniline (o-Nitroaniline)		8-74-4	0.33					< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
2-Nitrophenol (o-Nitrophenol)		8-75-5	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		1-94-1	-	-		-	-	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13
3-Nitroaniline		9-09-2	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-D 4-Bromophenylphenylether		34-52-1 01-55-3	-	-		-		< 0.19 < 0.019	< 0.18	< 0.18	< 0.2	< 0.21	< 0.21	< 0.22	< 0.19	< 0.2	< 0.21
4-Bromophenyiphenyiether 4-Chloroaniline		06-47-8	0.22	-		100		< 0.019	< 0.018 < 0.037	< 0.018 < 0.036	< 0.02 < 0.04	< 0.021 < 0.041	< 0.021 < 0.041	< 0.022 < 0.044	< 0.019 < 0.039	< 0.02 < 0.039	< 0.021 < 0.042
4-Chlorophenyl phenyl ether		005-72-3		-	-		-	< 0.039	< 0.037	< 0.036	< 0.02	< 0.041	< 0.041	< 0.044	< 0.039	< 0.039	< 0.042
4-Methylphenol (p-Cresol)		06-44-5	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	1	00-01-6						< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085
4-Nitrophenol		00-02-7	0.1	7				< 0.19	< 0.18	< 0.18	< 0.2	< 0.21	< 0.21	< 0.22	< 0.19	< 0.2	< 0.21
Acenaphthene		3-32-9	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 Acetophenone		108-96-8 18-86-2	107	-	100	100	100	0.054 < 0.019	0.017 J < 0.018	0.022 < 0.018	0.027 < 0.020	0.008 J < 0.021	0.005 J < 0.021	< 0.004 < 0.022	< 0.004 < 0.019	< 0.004 < 0.020	0.007 J < 0.021
Anthracene		20-12-7	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		912-24-9						< 0.039	< 0.037	< 0.036	< 0.040	< 0.041	< 0.041	< 0.044	< 0.039	< 0.039	< 0.042
Benzaldehyde		00-52-7						< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	0.14 J	< 0.077	< 0.078	< 0.085
Benzo(a)anthracene		6-55-3	1		1	1	1	<u>1.2</u>	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 Benzo(b)fluoranthene		0-32-8 05-99-2	22 1.70	2.6	1	1	1 1	1.6	0.26 0.4	0.29 0.45	0.39 0.56	0.042	0.011 J 0.015 J	0.021 J 0.035	0.005 J 0.009 J	0.005 J 0.008 J	0.011 J 0.021 J
Benzo(g,h,i)perylene		91-24-2	1000	-	100	100	100	2.3 1.2	0.4	0.45	0.56	0.069	0.015 J	0.035 0.019 J	< 0.009 3	< 0.008 3	0.021 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	1	11-91-1	-					< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
bis(2-Chloroethyl) ether		11-44-4						< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
bis(2-chloroisopropyl) ether		08-60-1						< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
bis(2-Ethylhexyl)phthalate Butylbenzylphthalate		17-81-7 5-68-7	435 122	239		50 100		< 0.077 < 0.077	< 0.074 < 0.074	0.073 J < 0.071	< 0.079 < 0.079	< 0.082 < 0.082	< 0.083 < 0.083	< 0.087 < 0.087	< 0.077 < 0.077	< 0.078 < 0.078	< 0.085 < 0.085
Caprolactam		05-60-2					<u></u>	< 0.077	< 0.074	< 0.036	< 0.079	< 0.062	< 0.063	< 0.087	< 0.077	< 0.078	< 0.042
Carbazole		6-74-8	_					0.15	0.036 J	0.03 J	0.11	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
Chrysene	2	18-01-9	1		1	1	3.9	<u>1.6</u>	0.26	0.3	0.44	0.042	0.011 J	0.027	0.006 J	0.005 J	0.02 J
Di-n-butylphthalate		4-74-2	8.1	0.01		100		< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085
Di-n-octylphthalate Dibenz(a,h)anthracene		17-84-0 3-70-3	120 1000		0.33	100 0.33	0.33	< 0.077	< 0.074 0.055	< 0.071 0.059	< 0.079 0.061	< 0.082 0.008 J	< 0.083	< 0.087 < 0.004	< 0.077	< 0.078	< 0.085 < 0.004
Dibenz(a,n)anthracene Dibenzofuran		32-64-9	6.20		0.33 7	14	0.33 59	0.34 0.033 J	0.055 0.019 J	< 0.018	< 0.02	< 0.008 J < 0.021	< 0.004 < 0.021	< 0.004 < 0.022	< 0.004 < 0.019	< 0.004 < 0.02	< 0.004 < 0.021
Diethylphthalate		4-66-2	7.1	100		100		< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.022	< 0.077	< 0.078	< 0.085
Dimethyl phthalate	1	31-11-3	27	200		100		< 0.077	< 0.074	< 0.071	< 0.079	< 0.082	< 0.083	< 0.087	< 0.077	< 0.078	< 0.085
Diphenyl (Biphenyl, Phenyl benze		2-52-4	-	60		-	-	< 0.019	< 0.018	< 0.018	< 0.020	< 0.021	< 0.021	< 0.022	< 0.019	< 0.020	< 0.021
Fluoranthene		206-44-0	1000		100	100	100	2.5	0.49	0.49	0.97	0.063	0.015 J	0.037	0.008 J	0.006 J	0.023
Fluorene Hexachlorobenzene		18-74-1	386 1.4	30	30 0.33	100 0.33	100 1.2	0.056 < 0.004	0.024 < 0.004	0.013 J < 0.004	0.035 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004
Hexachlorobutadiene		7-68-3		-				< 0.019	< 0.018	< 0.004	< 0.02	< 0.004	< 0.004	< 0.022	< 0.019	< 0.02	< 0.004
Hexachlorocyclopentadiene		7-47-4	-	10		-		< 0.19	< 0.18	< 0.18	< 0.2	< 0.21	< 0.21	< 0.22	< 0.19	< 0.2	< 0.21
Hexachloroethane		7-72-1	-	-		-	-	< 0.039	< 0.037	< 0.036	< 0.04	< 0.041	< 0.041	< 0.044	< 0.039	< 0.039	< 0.042
Indeno(1,2,3-cd)Pyrene		93-39-5	8.2	-	0.5	0.5	0.5	1.1	0.17	0.2	0.23	0.031	0.006 J	0.014 J	< 0.004	< 0.004	0.01 J
Isophorone		'8-59-1 621-64-7	4.4	-		100		< 0.019	< 0.018	< 0.018	< 0.02 < 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine (Dipheny		6-30-6	-	20	-	-		< 0.019 < 0.019	< 0.018 < 0.018	< 0.018 < 0.018	< 0.02 < 0.02	< 0.021 < 0.021	< 0.021 < 0.021	< 0.022 < 0.022	< 0.019 < 0.019	< 0.02 < 0.02	< 0.021 < 0.021
Naphthalene		1-20-3	12		12	100	100	0.033	0.017 J	0.012 J	0.011 J	0.005 J	< 0.021	< 0.004	< 0.004	< 0.02	0.006 J
Nitrobenzene		8-95-3	0.17	40		3.7	15	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
p-Chloro-m-cresol		9-50-7	-	-	-	-	-	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021
Pentachlorophenol		7-86-5	0.8	0.8	0.8	2.4	6.7	< 0.039	< 0.037	< 0.036	< 0.04	< 0.041	< 0.041	< 0.044	< 0.039	< 0.039	< 0.042
Phenanthrene Phenol		15-01-8	1000		100	100	100	0.92	0.3	0.22	0.78	0.033	0.009 J	0.02 J	0.004 J	< 0.004	0.014 J
	1	08-95-2	0.33	30	0.33	100	100	< 0.019	< 0.018	< 0.018	< 0.02	< 0.021	< 0.021	< 0.022	< 0.019	< 0.02	< 0.021



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nar	me	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
Polychlorinated Biphenyls Aroclor 1016	42	2674-11-2	-											< 0.0047	< 0.0042	< 0.0043	
Aroclor 1221		1104-28-2	-														
Aroclor 1232		1141-16-5	-	-			-							< 0.006	< 0.0053	< 0.0054	
Aroclor 1242		3469-21-9		-			-					-		< 0.01 < 0.0043	< 0.0092 < 0.0038	< 0.0095 < 0.0039	
Aroclor 1248		2672-29-6	-				-					-		< 0.0043	< 0.0038	< 0.0039	
Aroclor 1254		1097-69-1	-				-					-		< 0.0043	< 0.0038	< 0.0039	
Aroclor 1260		1096-82-5		-			-	-			-	-		< 0.0043	< 0.0057	< 0.0058	
Aroclor 1262		7324-23-5				-								< 0.0043	< 0.0037	< 0.0039	
Aroclor 1268		1100-14-4												< 0.0043	< 0.0038	< 0.0039	
Pesticides														V 0.0040	V 0.0000	V 0.0000	
4,4-DDD	72	2-54-8	14	0.0033	0.0033	2.6	13							< 0.00043	< 0.00038	< 0.00038	
4,4-DDE		2-55-9	17	0.0033	0.0033	1.8	8.9							0.0016 J	< 0.00038	< 0.00038	
4,4-DDT		0-29-3	136	0.0033	0.0033	1.7	7.9							< 0.0046	< 0.0004	< 0.00041	
Aldrin		09-00-2	0.19	0.14	0.005	0.019	0.097							< 0.00022	< 0.0004	< 0.0002	
alpha BHC		19-84-6	0.02	0.04	0.02	0.097	0.48							< 0.00022	< 0.0002	< 0.0002	
alpha Chlordane		103-71-9	2.9	1.30	0.094	0.91	4.2							< 0.00022	< 0.0002	< 0.0002	
beta BHC		19-85-7	0.09	0.6	0.036	0.072	0.36							< 0.00022	< 0.0002	< 0.00035	
delta BHC		19-86-8	0.25	0.04	0.04	100	100							< 0.00059	< 0.00052	0.00059 JP	
DIELDRIN		0-57-1	0.1	0.006	0.005	0.039	0.2							< 0.00043	< 0.00038	< 0.00038	
Endosulfan I		59-98-8	102		2.4	4.8	24							< 0.00029	< 0.00025	< 0.00026	
Endosulfan II		3213-65-9	102		2.4	4.8	24							< 0.00043	< 0.00038	< 0.00038	
ENDOSULFAN SULFATE		031-07-8	1000		2.4	4.8	24							< 0.00043	< 0.00038	< 0.00038	
ENDRIN		2-20-8	0.06	0.01	0.014	2.2	11							< 0.00043	< 0.00038	< 0.00038	-
ENDRIN ALDEHYDE		121-93-4	-				-							< 0.00043	< 0.00038	< 0.00038	-
ENDRIN KETONE		3494-70-5	-			_								< 0.00078	< 0.00069	< 0.0007	-
gamma BHC (Lindane)		3-89-9	0.1	6	0.1	0.28	1.3							< 0.00022	< 0.0002	< 0.0002	
gamma Chlordane		103-74-2	14			0.54								< 0.00022	< 0.0002	< 0.0002	
HEPTACHLOR	76	6-44-8	0.38	0.14	0.042	0.42	2.1							< 0.00022	< 0.0002	< 0.0002	
HEPTACHLOR EPOXIDE	10	024-57-3	0.02			0.077								< 0.00022	< 0.0002	< 0.0002	
METHOXYCHLOR	72	2-43-5	900	1.2		100								< 0.0022	< 0.002	< 0.002	
TOXAPHENE	80	001-35-2	-			-	-							< 0.018	< 0.016	< 0.016	
Metals																	
Aluminum	74	129-90-5		10000				16,700	10,400	18,300	14,800	17,900	17,100	13,700	14,100	15,100	18,600
Antimony	74	140-36-0		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	74	140-38-2	16	13	13	16	16	<u>39.4</u>	<u>21.5</u>	<u>34.8</u>	8.94	7.79	7.18	5.15	4.62	5.88	6.92
Barium	74	140-39-3	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	74	140-41-7	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	74	140-43-9	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	74	140-70-2		10000		-		2,420	49,100	10,900	1,470	1,120	1,110	2,000	825	949	630
Chromium		140-47-3			30	36	180	19.5	12.3	29.3	17.2	17	17.7	14.8	15.3	17.6	17.6
Omomum	74			20		30		10.2	6.61	13.2	8.05	8.06	9.38	7.78	7.39	8.83	9.97
Cobalt		140-48-4					070	29.6	16.7	30.6	16.3	15	16.9	16.5	10.2	13.2	19.1
	74	140-48-4 140-50-8	1720	50	50	270	270	20.0					00 500	10.000	4= 400	04 500	25,800
Cobalt Copper Iron	74 74		1720 	50 		2000		26,100	16,800	34,200	23,900	21,000	22,500	18,200	17,400	21,500	
Cobalt Copper	74 74 74 74	140-50-8 139-89-6 139-92-1	1720	50					16,800 28.2	34,200 36.9	21.3	21,000 17.2	18	18,200 15.3	9.06	9.98	21.4
Cobalt Copper Iron	74 74 74 74 74	140-50-8 139-89-6 139-92-1 139-95-4	1720 	50 		2000		26,100									
Cobalt Copper Iron Lead Magnesium Manganese	74 74 74 74 74 74	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5	1720 450 2000	50 63 1600	 63 1600	2000 400 2000	 400 2000	26,100 29.8 6,220 535	28.2 33,800 419	36.9 12,800 741	21.3 4,990 512	17.2 4,010 566	18 4,650 519	15.3 3,680 437	9.06 3,430 306	9.98 3,760 421	21.4 4,610 879
Cobalt Copper Iron Lead Magnesium Manganese Nickel	74 74 74 74 74 74	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0	1720 450 	50 63 	 63 	2000 400 	 400 	26,100 29.8 6,220 535 23.4	28.2 33,800 419 13.9	36.9 12,800	21.3 4,990 512 17.1	17.2 4,010 566 17.4	18 4,650 519 17.2	15.3 3,680 437 17.1	9.06 3,430 306 14.1	9.98 3,760 421 15.8	21.4 4,610 879 21.1
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	74 74 74 74 74 74 74	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7	1720 450 2000	50 63 1600	 63 1600	2000 400 2000	 400 2000	26,100 29.8 6,220 535	28.2 33,800 419	36.9 12,800 741	21.3 4,990 512	17.2 4,010 566	18 4,650 519	15.3 3,680 437	9.06 3,430 306	9.98 3,760 421	21.4 4,610 879
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	74 74 74 74 74 74 74 74	140-50-8 1439-89-6 1439-92-1 1439-95-4 1439-96-5 140-02-0 140-09-7 782-49-2	1720 450 2000 130	50 63 1600 30	 63 1600 30	2000 400 2000 140	 400 2000 310	26,100 29.8 6,220 535 23.4	28.2 33,800 419 13.9	36.9 12,800 741 29	21.3 4,990 512 17.1	17.2 4,010 566 17.4	18 4,650 519 17.2	15.3 3,680 437 17.1	9.06 3,430 306 14.1	9.98 3,760 421 15.8	21.4 4,610 879 21.1
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	74 74 74 74 74 74 74 74 77	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2	1720 450 2000 130	50 63 1600 30	 63 1600 30	2000 400 2000 140	 400 2000 310	26,100 29.8 6,220 535 23.4 1,760 0,231 J 0,0516 J	28.2 33,800 419 13.9 1,270 0.146 J 0.0284 J	36.9 12,800 741 29 2,000 0.164 J 0.0465 J	21.3 4,990 512 17.1 1,440 0.230 J 0.0787 J	17.2 4,010 566 17.4 1,310 0.256 J 0.0773 J	18 4,650 519 17.2 1,380	15.3 3,680 437 17.1 1,600	9.06 3,430 306 14.1 1,410 0.187 J 0.0535 J	9.98 3,760 421 15.8 1,520	21.4 4,610 879 21.1 1,450 0,404 J 0.0705 J
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	74 74 74 74 74 74 74 74 77 74	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2 140-22-4 140-23-5	1720 450 2000 130 4	50 63 1600 30 3.9	 63 1600 30 3.9	2000 400 2000 140 36	 400 2000 310 180	26,100 29.8 6,220 535 23.4 1,760 0,231 J 0,0516 J 53.7 J	28.2 33,800 419 13.9 1,270 0.146 J 0.0284 J 72.4 J	36.9 12,800 741 29 2,000 0.164 J 0.0465 J 67.7 J	21.3 4,990 512 17.1 1,440 0.230 J 0.0787 J 45.9 J	17.2 4,010 566 17.4 1,310 0.256 J 0.0773 J 43.6 J	18 4,650 519 17.2 1,380 0.207 J 0.0562 J 51.3 J	15.3 3,680 437 17.1 1,600 0.216 J 0.0690 J 50.2 J	9.06 3,430 306 14.1 1,410 0.187 J 0.0535 J 53.0 J	9.98 3,760 421 15.8 1,520 0.153 J 0.0346 J 57.0 J	21.4 4,610 879 21.1 1,450 0,404 J 0,0705 J 39.5 J
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	74 74 74 74 74 74 74 74 77 74	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 182-49-2 140-22-4 140-23-5 140-28-0	1720 450 2000 130 4 8.3	50 63 1600 30 3.9 2 5	 63 1600 30 3.9	2000 400 2000 140 36 36 	 400 2000 310 180	26,100 29.8 6,220 535 23.4 1,760 0.231 J 0.0516 J 53.7 J 0.111 J	28.2 33,800 419 13.9 1,270 0.146 J 0.0284 J	36.9 12,800 741 29 2,000 0.164 J 0.0465 J 67.7 J	21.3 4,990 512 17.1 1,440 0.230 J 0.0787 J 45.9 J 0.108 J	17.2 4,010 566 17.4 1,310 0.256 J 0.0773 J 43.6 J 0.152 J	18 4,650 519 17.2 1,380 0.207 J 0.0562 J 51.3 J 0.133 J	15.3 3,680 437 17.1 1,600 0.216 J 0.0690 J 50.2 J 0.131 J	9.06 3,430 306 14.1 1,410 0.187 J 0.0535 J 53.0 J 0.126 J	9.98 3,760 421 15.8 1,520 0.153 J 0.0346 J	21.4 4,610 879 21.1 1,450 0.404 J 0.0705 J 39.5 J 0.166 J
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	74 74 74 74 74 74 74 77 74 74	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2 140-22-4 140-23-5 140-28-0 140-62-2	1720 450 2000 130 4 8.3 	50 	 63 1600 30 3.9 2 	2000 400 2000 140 36 100	 400 2000 310 180 180 	26,100 29.8 6,220 535 23.4 1,760 0.231 J 0.0516 J 53.7 J 0.111 J 24.5	28.2 33,800 419 13.9 1,270 0.146 J 0.0284 J 72.4 J 0.0760 J 17.3	36.9 12,800 741 29 2,000 0.164 J 0.0465 J 67.7 J 0.0948 J 29.8	21.3 4,990 512 17.1 1,440 0.230 J 0.0787 J 45.9 J 0.108 J 23	17.2 4,010 566 17.4 1,310 0.256 J 0.0773 J 43.6 J 0.152 J 23.5	18 4,650 519 17.2 1,380 0.207 J 0.0562 J 51.3 J 0.133 J 24.1	15.3 3,680 437 17.1 1,600 0.216 J 0.0690 J 50.2 J 0.131 J 23.3	9.06 3,430 306 14.1 1,410 0.187 J 0.0535 J 53.0 J 0.126 J 20.6	9.98 3,760 421 15.8 1,520 0.153 J 0.0346 J 57.0 J 0.131 J 23.5	21.4 4,610 879 21.1 1,450 0.404 J 0.0705 J 39.5 J 0.166 J 26.8
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	74 74 74 74 74 74 74 77 74 74 74 74	140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 182-49-2 140-22-4 140-23-5 140-28-0	1720 450 2000 130 4 8.3 	50 63 1600 30 3.9 2 5	 63 1600 30 3.9 2	2000 400 2000 140 36 36 	 400 2000 310 180 180	26,100 29.8 6,220 535 23.4 1,760 0.231 J 0.0516 J 53.7 J 0.111 J	28.2 33,800 419 13.9 1,270 0.146 J 0.0284 J 72.4 J 0.0760 J	36.9 12,800 741 29 2,000 0.164 J 0.0465 J 67.7 J	21.3 4,990 512 17.1 1,440 0.230 J 0.0787 J 45.9 J 0.108 J	17.2 4,010 566 17.4 1,310 0.256 J 0.0773 J 43.6 J 0.152 J	18 4,650 519 17.2 1,380 0.207 J 0.0562 J 51.3 J 0.133 J	15.3 3,680 437 17.1 1,600 0.216 J 0.0690 J 50.2 J 0.131 J	9.06 3,430 306 14.1 1,410 0.187 J 0.0535 J 53.0 J 0.126 J	9.98 3,760 421 15.8 1,520 0.153 J 0.0346 J 57.0 J 0.131 J	21.4 4,610 879 21.1 1,450 0,404 J 0,0705 J 39.5 J 0,166 J

--: 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



Loc: Samp Field Sai Depth I Sample P Parameter Name	mple ID Interval	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	Code	CF-51 FOG	OF-STEEK	Objectives	Residential	Restricted										
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		-			100		-								
Methyl-t-butyl ether	1634-04-4	0.93	-	0.93	62	100										
Methylogo chlorido (Dichloromethano)	108-87-2	0.05		0.05		100										
Methylene chloride (Dichloromethane)	75-09-2	0.05	12	0.05	51	100										
o-Xylene Styrono	95-47-6	-	200													
Styrene tort Amyl methyl other	100-42-5 994-05-8		300		-											
Tertian Rutul Alcohol	75-65-0	-	-		-											
Tertiary Butyl Alcohol 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	0.7		0.7	100	100										
trans-1,3-Dichloropropene	10061-02-6	0.19	-	0.19	100	100										
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21										
Trichlorofluoromethane (Freon 11)	75-69-4	0.47		0.47												
Vinyl chloride (Chloroethene)	75-09-4	0.02	-	0.02	0.21	0.9				-						
Xylene (total)	1330-20-7	1.60	0.26	0.02	100	100										
(ioidi)	1000-20-7	1.00	0.20	0.20	100	100	-			-		-	-	-		



Parameter Name emivolatile Organic Compoun 1,2,4,5-Tetrachlorobenzene	Depth Interval Sample Purpose Parar				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	6/1/2017 OU1EESB04-S-0.50- 0.5-1	6/1/2017 OU1EESB04-S-1.00- 1-2	6/1/2017 OU1EESB05-S-0.17- 0.17-0.5	6/1/2017 OU1EESB05-S-0.50- 0.5-1	6/1/2017 OU1EESB05-S-1.00- 1-2	5/31/2017 OU1EESB06-S-0.17- 0.17-0.5	5/31/2017 OU1EESB06-S-0.50- 0.5-1	5/31/2017 OU1EESB06-S-1.00- 1-2	OU1EESB07 5/31/2017 OU1EESB07-S-0.17- 0.17-0.5	OU1EESB07 5/31/2017 OU1EESB07-S-0.50- 0.5-1
emivolatile Organic Compoun		neter 375-6.8 de CP-51		375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
,2,4,5-Tetrachlorobenzene		ue CF-31	F03 (OF-STEEK	Objectives	Residential	Restricted										
	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 2,3,4,6-Tetrachlorophenol	123-91-1 58-90-2	0.		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
2,4,5-Trichlorophenol	95-95-4	0.		4		100		< 0.083 < 0.021	< 0.080 < 0.02	< 0.089 < 0.022	< 0.084 < 0.021	< 0.078 < 0.02	< 0.081 < 0.02	< 0.094 < 0.023	< 0.085 < 0.021	< 0.093 < 0.023	< 0.081 < 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		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	51-28-5 121-14-2	0.:		20		100		< 0.37 < 0.083	< 0.36	< 0.4 < 0.089	< 0.38 < 0.084	< 0.35 < 0.078	< 0.37 < 0.081	< 0.42 < 0.094	< 0.38	< 0.42 < 0.093	< 0.36 < 0.081
2,6-Dinitrotoluene	606-20-2			-		1.03		< 0.083	< 0.08 < 0.02	< 0.089	< 0.084	< 0.078	< 0.081	< 0.023	< 0.085 < 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)	,	-		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				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) 2-Nitroaniline (o-Nitroaniline)	95-48-7 88-74-4	0.3		-	0.33	100	100	< 0.021 < 0.021	< 0.02 < 0.02	< 0.022 < 0.022	< 0.021 < 0.021	< 0.02 < 0.02	< 0.02 < 0.02	< 0.023 < 0.023	< 0.021 < 0.021	< 0.023 < 0.023	< 0.02 < 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.		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.		-	-	-		< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
1,6-Dinitro-2-methylphenol (4,6-D	, ,			-	-	-		< 0.21	< 0.2	< 0.22	< 0.21	< 0.2	< 0.2	< 0.23	< 0.21	< 0.23	< 0.2
I-Bromophenylphenylether I-Chloroaniline	101-55-3 106-47-8				-	100		< 0.021 < 0.041	< 0.02 < 0.04	< 0.022 < 0.045	< 0.021 < 0.042	< 0.02 < 0.039	< 0.02 < 0.041	< 0.023 < 0.047	< 0.021 < 0.042	< 0.023 < 0.047	< 0.02 < 0.04
1-Chlorophenyl phenyl ether	7005-72			-	-		-	< 0.041	< 0.02	< 0.045	< 0.042	< 0.039	< 0.041	< 0.047	< 0.042	< 0.047	< 0.04
1-Methylphenol (p-Cresol)	106-44-5		3	-	0.33	34	100	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
1-Nitroaniline	100-01-6					-		< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
1-Nitrophenol	100-02-7			7				< 0.21	< 0.2	< 0.22	< 0.21	< 0.2	< 0.2	< 0.23	< 0.21	< 0.23	< 0.2
Acenaphthene Acenaphthylene	83-32-9 208-96-8	98		20	20 100	100 100	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	< 0.005 < 0.005	< 0.004 < 0.004	< 0.005 0.008 J	< 0.004 < 0.004
Acetophenone	98-86-2			-				< 0.021	< 0.020	< 0.022	< 0.004	< 0.020	< 0.020	< 0.023	< 0.021	< 0.023	< 0.020
Anthracene	120-12-7	100	00		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				-	-	-	< 0.041	< 0.040	< 0.045	< 0.042	< 0.039	< 0.041	< 0.047	< 0.042	< 0.047	< 0.040
Benzaldehyde	100-52-7	' <u>-</u>				-		< 0.083	< 0.080	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	0.12 J	< 0.081
Benzo(a)anthracene Benzo(a)pyrene	56-55-3 50-32-8	22		2.6	1	1	1	< 0.004 < 0.004	< 0.004 < 0.004	0.008 J 0.009 J	< 0.004 < 0.004	< 0.004 < 0.004	0.007 J 0.01 J	< 0.005 < 0.005	< 0.004 < 0.004	0.022 J 0.022 J	< 0.004 < 0.004
Benzo(b)fluoranthene	205-99-2				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	100	00		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				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
ois(2-Chloroethoxy)methane ois(2-Chloroethyl) ether	111-91-1 111-44-4				<u>-</u>	-		< 0.021 < 0.021	< 0.02 < 0.02	< 0.022 < 0.022	< 0.021 < 0.021	< 0.02 < 0.02	< 0.02 < 0.02	< 0.023 < 0.023	< 0.021 < 0.021	< 0.023 < 0.023	< 0.02 < 0.02
ois(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
pis(2-Ethylhexyl)phthalate	117-81-7		5	239		50		< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
Butylbenzylphthalate	85-68-7	12	2	-		100		< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
Caprolactam	105-60-2	· -				-	-	< 0.041	< 0.040	< 0.045	< 0.042	< 0.039	< 0.041	< 0.047	< 0.042	< 0.047	< 0.040
Carbazole Chrysene	86-74-8 218-01-9			-		1	3.9	< 0.021 0.008 J	< 0.02 0.005 J	< 0.022 0.012 J	< 0.021 < 0.004	< 0.02 < 0.004	< 0.02 0.012 J	< 0.023 < 0.005	< 0.021 < 0.004	< 0.023 0.034	< 0.02 0.005 J
Di-n-butylphthalate	84-74-2	8.		0.01	<u>-</u>	100		< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.003	< 0.085	< 0.093	< 0.081
Di-n-octylphthalate	117-84-0					100		< 0.083	< 0.08	< 0.089	< 0.084	< 0.078	< 0.081	< 0.094	< 0.085	< 0.093	< 0.081
Dibenz(a,h)anthracene	53-70-3	100		-	0.33	0.33	0.33	< 0.004	< 0.004	0.005 J	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	< 0.004
Dibenzofuran Diethylphthelete	132-64-9				7	14	59	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
Diethylphthalate Dimethyl phthalate	84-66-2 131-11-3	7.		100 200	<u>-</u>	100 100		< 0.083 < 0.083	< 0.08 < 0.08	< 0.089 < 0.089	< 0.084 < 0.084	< 0.078 < 0.078	< 0.081 < 0.081	< 0.094 < 0.094	< 0.085 < 0.085	< 0.093 < 0.093	< 0.081 < 0.081
Diphenyl (Biphenyl, Phenyl benze		-		60	-		-	< 0.021	< 0.020	< 0.022	< 0.021	< 0.020	< 0.020	< 0.023	< 0.021	< 0.023	< 0.020
Fluoranthene	206-44-0	100	00		100	100	100	0.006 J	< 0.004	0.019 J	0.006 J	< 0.004	0.017 J	< 0.005	< 0.004	0.05	0.006 J
luorene	86-73-7	38		30	30	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	0.006 J	< 0.004
Hexachlorobenzene	118-74-1				0.33	0.33	1.2	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	< 0.004
Hexachlorobutadiene Hexachlorocyclopentadiene	87-68-3 77-47-4	-		10	<u>-</u>	-		< 0.021 < 0.21	< 0.02 < 0.2	< 0.022 < 0.22	< 0.021 < 0.21	< 0.02 < 0.2	< 0.02 < 0.2	< 0.023 < 0.23	< 0.021 < 0.21	< 0.023 < 0.23	< 0.02 < 0.2
dexachloroethane	67-72-1				-	_	-	< 0.041	< 0.04	< 0.045	< 0.042	< 0.039	< 0.041	< 0.047	< 0.042	< 0.047	< 0.04
ndeno(1,2,3-cd)Pyrene	193-39-5			-	0.5	0.5	0.5	0.005 J	0.004 J	0.016 J	< 0.004	< 0.004	0.006 J	< 0.005	< 0.004	0.016 J	< 0.004
sophorone	78-59-1	4.				100	-	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
I-Nitrosodi-n-propylamine	621-64-7			 20	-	-	-	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
I-Nitrosodiphenylamine (Diphenylaphthalene	ylamine) 86-30-6 91-20-3	12			12	100	100	< 0.021 < 0.004	< 0.02 0.005 J	< 0.022 < 0.004	< 0.021 < 0.004	< 0.02 < 0.004	< 0.02 < 0.004	< 0.023 < 0.005	< 0.021 < 0.004	< 0.023 0.011 J	< 0.02 0.004 J
Vaprillalerie	98-95-3	0.1		40		3.7	15	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
-Chloro-m-cresol	59-50-7	-		-	-	-	-	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.023	< 0.02
Pentachlorophenol	87-86-5	0.		8.0	0.8	2.4	6.7	< 0.041	< 0.04	< 0.045	< 0.042	< 0.039	< 0.041	< 0.047	< 0.042	< 0.047	< 0.04
Phenanthrene	85-01-8	100			100	100	100	0.006 J	0.006 J	0.01 J	< 0.004	< 0.004	0.011 J	< 0.005	< 0.004	0.035	< 0.004
Phenol Pyrene	108-95-2 129-00-0			30	0.33 100	100 100	100 100	< 0.021 0.007 J	< 0.02 < 0.004	< 0.022 0.017 J	< 0.021 0.006 J	< 0.02 < 0.004	< 0.02 0.017 J	< 0.023 < 0.005	< 0.021 < 0.004	< 0.023 0.048	< 0.02 0.006 J



Marie Name Mar	Parameter Nan	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	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
Mart 1971 1974 19		iie	Code	CF-51 FOG	CF-ST PER	Objectives	Residential	Restricted					<u> </u>					
Marcol 110-2042 - - - - - - - - -			12674-11-2															
March Marc																		
According Supplied - -																		
Mercy 104 Mary 104																		
Most 1536 1986 94																		
Mart	Aroclor 1254						-											
Marie No. 1986-84	Aroclor 1260		11096-82-5				-											
Second S	Aroclor 1262		37324-23-5	-	-							-	-					
March Marc	Aroclor 1268		11100-14-4	-			-											
A-100	Pesticides																	
MACHINE 1962 1968 1968 1968 1968 1969 1978 1978 1979	4,4-DDD		72-54-8	14	0.0033	0.0033	2.6	13										
March March 1946				17	0.0033	0.0033	1.8	8.9										
September 1994 1994 1906 19	4,4-DDT		50-29-3	136	0.0033	0.0033	1.7	7.9										
September 198-74 20																		
See Discription 1948-94 20, 20																		
Output O	•																	
DELORING 69-74 61 0.056 0.056 0.059 0.22																		
Secondarial Secondaria																		
## PRODUCTION GLAPTE 1371-1469 102																		
ENDORNA PLATE 1991-99 1990 2- 2- 4 48 2- 2- 2- 2- 2- 2- 2- 2																		
ENGINA 72-98 72-																		
EMPIRIA DEPINDE 741-94																		
EMDINICTORE SAMPAPO C. C. C. C. C. C. C. C																		
Definition Sea																		
Definition Signature Sig																		
HEPTACHOR PROME 74.48 0.38 0.14 0.042 0.42 2.1																		
HEPTACHER PROXIDE																		
METHON/CYCLOR 724-95 900 1.2 1.0																		
TOMPHENE Month Mo																		
Marinum																		
Alternation					-													
Arsenic 7440-38-2 16 13 13 13 16 16 5.51 5.51 5.51 5.51 6.05 5.77 6.31 6.85 11.3 11.9 6.66 Barlum 7440-39-3 820 433 350 550 400 77.7 72.6 72.6 79.9 72.2 6.61 95.77 12.2 22.5 22.5 22.5 Beyfilling 7440-41-7 47 10 72.0 14.0 72.0 72.0 72.0 72.0 72.0 72.0 72.0 72			7429-90-5		10000				20,100	19,400	19,700	19,400	16,900	21,600	38,000	41,500	18,400	17,000
Arsenic 7440-38-2 16 13 13 13 16 16 5.51 5.51 5.51 5.51 6.05 5.77 6.31 6.85 11.3 11.9 6.66 Barlum 7440-39-3 820 433 350 550 400 77.7 72.6 72.6 79.9 72.2 6.61 95.77 12.2 22.5 22.5 22.5 Beyfilling 7440-41-7 47 10 72.0 14.0 72.0 72.0 72.0 72.0 72.0 72.0 72.0 72	Antimony				12													< 0.0904
Beryllim 7440-44-7	Arsenic		7440-38-2	16	13	13	16	16	5.51		6.05		6.31	6.85		11.9	6.66	5.88
Cadisim 7440-49 7.50 4 2.5 2.5 4.3 0.125 0.0893 0.0436 0.0525 0.0486 0.0525 0.145 0.313 0.282 0.0482 0.0682	Barium		7440-39-3	820	433	350	350	400	77.7	72.6	79.9			95.7			53.2	56.7
Calcium 7440-70-2	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
Chromium	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
Cobalt 7440-84 - 20 - 30 - 9.77 8.4 6.38 8.82 7.45 6.89 12.9 14.5 5.67 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 Ino 7439-96-6 - - - 2000 - 24,500 22,300 20,400 21,800 22,600 22,600 38,70 42,900 19,600 19,600 22,600 42,500 22,800 20,000 22,600 22,600 38,70 42,500 19,600 19,00 24,500 18,00 11,00 20,00 19,600 11,00 20,00 19,600 11,00 20,00 19,600 11,00 20,00 31,30 31,14 17,8 17,7 14 22.2 15,50 19,600 18,00 11,10 14,00 22,15 19,1 38,30 18,00 19,10 11,10					10000													626
Copper 7440-50-8 1720 50 50 270 14.6 13.8 11.7 11.3 17.7 16 32.4 42.9 14 Iron 7439-89-6 24,500 22,300 20,400 21,800 26,000 38,700 43,600 19,600 2 Magnesium 7439-95-4 4,550 3,930 3,700 3,730 5,630 4,530 6,850 8,210 3,890 6 Magnesium 7439-95-4 4,550 3,930 3,700 3,730 5,630 4,530 6,850 8,210 3,890 6 Manganese 7439-96-5 2000 1600 1600 2000 987 910 247 440 253 302 1,580 1,34 193 193 Potassium 7440-02-0 130 30 140 310 22.1 195 17.2 17.				-		30		180										18.9
Fron																		9.78
Lead 7439-92-1 450 63 63 400 400 13.3 11.4 17.8 17 14 22.2 21.5 19 38.3 18 Magnesium 7439-95-4 4,550 3,930 3,700 3,730 5,630 4,500 6,850 8,210 3,890 5 Manganese 7439-96-5 2000 1600 2000 2000 97 910 247 440 253 3,92 1,580 1,340 193 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 Potassium 7440-02-0 130 3.9 36 180 0.373 J 0.302 J 0.589 J 0.555 J 1,820 5,550 1,820 Selenium 7782-49-2 4 3.9 3.9 36 180 0.733 J				1720	50	50		270										17.9
Magnesium 7439-95-4 4,550 3,930 3,700 3,730 5,630 4,530 6,850 8,210 3,890 9 8 8 9																		25,800
Marganese 7439-65 2000 1600 1600 2000 987 910 247 440 253 302 1,580 1,340 193 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 Potassium 7440-09-7 1,360 1,070 1,080 1,110 1,400 2,210 4,380 5,550 1,820 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 0.0 Silver 7440-22-4 8.3 2 2 36 180 0.123 J 0.060 J 0.060 J 0.023 J 0.523 J 0.518 J 0.224 J 0.322 J 0.118 J 0.225 J 0.23 J 0.52 J 0.23 J 0.218 J 0.22 J 0.23 J 0.25 J 0.23 J 0.218 J 0.24 J 0.18 J 0.24 J							400											14.7
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 Potassium 7440-09-7 1,360 1,070 1,080 1,110 1,400 2,210 4,380 5,550 1,820 5.550 1,820 5.550 5.500 1,820 5.500 5																		5,260
Potassium 7440-9-7 1,360 1,070 1,080 1,110 1,400 2,210 4,380 5,550 1,820 2 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 0.598 J 0.598 J 0.000 J																		463
Selenium 7782-49-2 4 3.9 3.9 3.6 180 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 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 0.0 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 48.6 J 56.2 J 32.6 J 48.2 J 48.2 J 48.2 J 48.2 J 48.2 J 48.6 J 56.2 J 32.6 J 32.6 J 48.2 J 48.2 J <td></td> <td>20.9</td>																		20.9
Sliver 7440-22-4 8.3 2 2 36 180 0.123 J 0.0665 J 0.0667 J 0.0582 J 0.0232 J 0.118 J 0.254 J 0.322 J 0.131 J 0.032 J Sodium 7440-23-5 J 39.6 J 47.6 J 50.7 J 52.2 J 52.3 J 62.4 J 178 J 282 J 48.2																		1,750
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																		0.314 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 Vanadium 7440-62-2 39 100 25.3 24.6 29.8 30.5 27.9 31 48.6 56.2 32.6 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																		0.0552 J 48.8 J
Vanadium 7440-62-2 39 100 25.3 24.6 29.8 30.5 27.9 31 48.6 56.2 32.6 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																		0.128 J
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																		23.4
																		66
																		0.0401 J
	. ,									2.23 0		2.202.0	5.52.00	2.2020 0	2.2 0	2.200.0	1.1002 0	2.2.0.0

--: 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	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nam Volatile Organic Compounds	1e	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted					<u> </u>	<u> </u>				
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 (Fre	eon 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 (D	DBCP)	96-12-8				-											
1,2-Dibromoethane		106-93-4				-											
1,2-Dichlorobenzene (o-Dichloro	benzene)	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 50-00-5	2.7	-		100											
Carbon Tetrachloride		56-23-5	0.76	-	0.76	1.4	2.4							-			
Chlorobenzene Chloroethane		108-90-7	1.1 1.9	40	1.1	100	100										
Chloroform		75-00-3 67-66-3	0.37	12	0.37	10	49										
Chloromethane (Methyl chloride)		74-87-3			0.37			-		-	-			-			
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		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 (Dichlorometh		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 (Trichloroethylen		79-01-6	0.47	2	0.47	10	21										
Trichlorofluoromethane (Freon 1		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			Unroctriete		275 C-0/h) 8	OU1EESB07 5/31/2017	OU1EESB08 5/23/2017	OU1EESB08 5/23/2017	OU1EESB08 5/23/2017	OU1EESB09 5/23/2017 OU1EESB09-S-0.17-	OU1EESB09 5/23/2017	OU1EESB09 5/23/2017	OU1EESB10 5/23/2017	OU1EESB10 5/23/2017	OU1EESB10 5/23/2017
	ield Sample ID Depth Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB07-S-1.00- 1-2	OU1EESB08-S-0.17- 0.17-0.5	OU1EESB08-S-0.50- 0.5-1	OU1EESB08-S-1.00- 1-2	0.17-0.5	OU1EESB09-S-0.50- 0.5-1	OU1EESB09-S-1.00-	OU1EESB10-S-0.17- 0.17-0.5	OU1EESB10-S-0.50- 0.5-1	OU1EESB10-S-1.00
Sa Parameter Name	ample Purpose Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
mivolatile Organic Compounds		01-311-00	OI -STILK	Objectives	Residential	Restricted	<u> </u>		<u> </u>					1	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
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
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
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
4,6-Trichlorophenol 4-Dichlorophenol	88-06-2 120-83-2	0.4	10 20	-	100		< 0.02 < 0.02	< 0.02	< 0.02	< 0.019 < 0.019	< 0.018	< 0.02	< 0.02 < 0.02	< 0.02	< 0.022	< 0.022
4-Dimethylphenol	105-67-9	0.4					< 0.02	< 0.02 < 0.02	< 0.02 < 0.02	< 0.019	< 0.018 < 0.018	< 0.02 < 0.02	< 0.02	< 0.02 < 0.02	< 0.022 < 0.022	< 0.022 < 0.022
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
1-Dinitrotoluene	121-14-2				-		< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
i-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
Chloronaphthalene	91-58-7	-	-		-		< 0.008	< 0.008	< 0.008	< 0.008	< 0.007	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009
hlorophenol (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
Methyl-Naphthalene	91-57-6 95-48-7	36.4	-		0.41	400	< 0.004	0.008 J	< 0.004	< 0.004	0.007 J	0.005 J	< 0.004	0.013 J	< 0.004	< 0.004
Methylphenol (o-Cresol) litroaniline (o-Nitroaniline)	88-74-4	0.33	-	0.33	100	100	< 0.02 < 0.02	< 0.02 < 0.02	< 0.02 < 0.02	< 0.019 < 0.019	< 0.018 < 0.018	< 0.02 < 0.02	< 0.02 < 0.02	< 0.02 < 0.02	< 0.022 < 0.022	< 0.022 < 0.022
litrophenol (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
-Dichlorobenzidine	91-94-1						< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13	< 0.13
litroaniline	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
6-Dinitro-2-methylphenol (4,6-Din	,						< 0.2	< 0.2	< 0.2	< 0.19	< 0.18	< 0.2	< 0.2	< 0.2	< 0.22	< 0.22
Bromophenylphenylether	101-55-3			-			< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
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
Chlorophenyl phenyl ether Methylphenol (p-Cresol)	7005-72-3 106-44-5	0.33	-	0.33	34	100	< 0.02 < 0.02	< 0.02 < 0.02	< 0.02 < 0.02	< 0.019 < 0.019	< 0.018 < 0.018	< 0.02 < 0.02	< 0.02 < 0.02	< 0.02 < 0.02	< 0.022 < 0.022	< 0.022 < 0.022
Nitroaniline	100-44-5	0.33	-	0.33			< 0.02	< 0.02	< 0.02	< 0.077	< 0.073	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
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
enaphthene	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
enaphthylene	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
etophenone	98-86-2	-	-		-		< 0.020	< 0.020	< 0.020	< 0.019	< 0.018	< 0.020	< 0.020	< 0.020	< 0.022	< 0.022
thracene	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
razine nzaldehyde	1912-24-9 100-52-7	-	-	-	-		< 0.039	< 0.041	< 0.040 < 0.080	< 0.038 < 0.077	< 0.036	< 0.039	< 0.041	< 0.041	< 0.043	< 0.045 < 0.090
nzo(a)anthracene	56-55-3	1		1	1	1	< 0.078 < 0.004	< 0.081 0.083	0.006 J	< 0.077	< 0.073 0.25	< 0.078	< 0.082 0.023	< 0.081 0.009 J	< 0.087 0.005 J	< 0.090
nzo(a)pyrene	50-32-8	22	2.6	1	1	1	< 0.004	0.077	0.000 J	< 0.004	0.27	0.11	0.029	0.009 J	< 0.004	0.009 J
nzo(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
nzo(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
nzo(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
(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
(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
(2-chloroisopropyl) ether (2-Ethylhexyl)phthalate	108-60-1 117-81-7	435	239		50	-	< 0.02 < 0.078	< 0.02 < 0.081	< 0.02 < 0.08	< 0.019 < 0.077	< 0.018 < 0.073	< 0.02 < 0.078	< 0.02 < 0.082	< 0.02 < 0.081	< 0.022 < 0.087	< 0.022 < 0.09
itylbenzylphthalate	85-68-7	122			100		< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
aprolactam	105-60-2		-	-	-	-	< 0.039	< 0.041	< 0.040	< 0.038	< 0.036	< 0.039	< 0.041	< 0.041	< 0.043	0.079 J
ırbazole	86-74-8						< 0.02	< 0.02	< 0.02	< 0.019	0.047	0.025 J	< 0.02	< 0.02	< 0.022	< 0.022
rysene	218-01-9	1		1	1	3.9	< 0.004	0.089	0.01 J	0.004 J	0.25	0.12	0.031	0.014 J	0.006 J	0.006 J
n-butylphthalate	84-74-2	8.1	0.01		100		< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
n-octylphthalate	117-84-0	120			100		< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
enz(a,h)anthracene enzofuran	53-70-3 132-64-9	1000 6.20	-	0.33	0.33 14	0.33 59	< 0.004 < 0.02	0.013 J < 0.02	< 0.004 < 0.02	< 0.004 < 0.019	0.05 < 0.018	0.015 J < 0.02	0.004 J < 0.02	< 0.004 < 0.02	< 0.004 < 0.022	< 0.004 < 0.022
ethylphthalate	84-66-2	7.1	100		100	59	< 0.02 < 0.078	< 0.02	< 0.02	< 0.019 < 0.077	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
methyl phthalate	131-11-3	27	200	-	100		< 0.078	< 0.081	< 0.08	< 0.077	< 0.073	< 0.078	< 0.082	< 0.081	< 0.087	< 0.09
phenyl (Biphenyl, Phenyl benzen			60		-		< 0.020	< 0.020	< 0.020	< 0.019	< 0.018	< 0.020	< 0.020	< 0.020	< 0.022	< 0.022
oranthene	206-44-0	1000	-	100	100	100	< 0.004	0.18	0.015 J	0.004 J	0.52	0.23	0.058	0.018 J	0.007 J	0.01 J
iorene	86-73-7	386	30	30	100	100	< 0.004	0.02 J	< 0.004	< 0.004	0.027	0.01 J	0.004 J	< 0.004	< 0.004	< 0.004
xachlorobenzene	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
xachlorobutadiene	87-68-3				-	-	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
xachlorocyclopentadiene xachloroethane	77-47-4 67-72-1	-	10		-		< 0.2 < 0.039	< 0.2 < 0.041	< 0.2 < 0.04	< 0.19 < 0.038	< 0.18 < 0.036	< 0.2 < 0.039	< 0.2 < 0.041	< 0.2 < 0.041	< 0.22 < 0.043	< 0.22 < 0.045
eno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	< 0.039	0.041	< 0.04 0.005 J	< 0.038	< 0.036 0.16	< 0.039 0.062	< 0.041 0.019 J	< 0.041 0.007 J	< 0.043	< 0.045 < 0.004
phorone	78-59-1	4.4	-		100		< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
Nitrosodi-n-propylamine	621-64-7				-		< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
Nitrosodiphenylamine (Diphenyla	mine) 86-30-6	-	20		-		< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
phthalene	91-20-3	12		12	100	100	< 0.004	0.009 J	< 0.004	0.006 J	0.012 J	0.011 J	< 0.004	0.21	< 0.004	< 0.004
robenzene	98-95-3	0.17	40		3.7	15	< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
Chloro-m-cresol	59-50-7						< 0.02	< 0.02	< 0.02	< 0.019	< 0.018	< 0.02	< 0.02	< 0.02	< 0.022	< 0.022
entachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.039	< 0.041	< 0.04	< 0.038	< 0.036	< 0.039	< 0.041	< 0.041	< 0.043	< 0.045
nenanthrene nenol	85-01-8 108-95-2	1000 0.33	30	100 0.33	100 100	100 100	< 0.004 < 0.02	0.2 < 0.02	0.01 J < 0.02	0.004 J < 0.019	0.34 < 0.018	0.16 < 0.02	0.04 < 0.02	0.014 J < 0.02	0.005 J < 0.022	0.007 J < 0.022
UTIO	129-00-0	1000	30	100	100	100	< 0.02 < 0.004	0.17	< 0.02 0.015 J	< 0.019 0.004 J	< 0.018 0.45	0.02	< 0.02 0.053	< 0.02 0.02 J	< 0.022 0.009 J	< 0.022 0.008 J



Parameter Nar		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	126	674-11-2															
Aroclor 1221	111	104-28-2															
Aroclor 1232	111	141-16-5				-											
Aroclor 1242	534	469-21-9				-											
Aroclor 1248		672-29-6															
Aroclor 1254		097-69-1															
Aroclor 1260		096-82-5	-			-											
Aroclor 1262		324-23-5			-												
Aroclor 1268	111	100-14-4				-											
Pesticides	70		44	0.0000	0.0000	0.0	40										
4,4-DDD 4,4-DDE		-54-8	14	0.0033	0.0033	2.6	13				-						
4,4-DDE 4,4-DDT		-55-9 -29-3	17 136	0.0033 0.0033	0.0033 0.0033	1.8 1.7	8.9 7.9										
Aldrin		9-00-2	0.19	0.0033	0.0033	0.019	0.097										
alpha BHC		9-84-6	0.19	0.14	0.005	0.019	0.097					-					
alpha Chlordane		03-71-9	2.9	1.30	0.02	0.097	4.2										
beta BHC		9-85-7	0.09	0.6	0.036	0.072	0.36										
delta BHC		9-86-8	0.09	0.04	0.030	100	100										
DIELDRIN		-57-1	0.1	0.006	0.005	0.039	0.2										
Endosulfan I		9-98-8	102		2.4	4.8	24										
Endosulfan II		213-65-9	102		2.4	4.8	24										
ENDOSULFAN SULFATE	103	31-07-8	1000		2.4	4.8	24										
ENDRIN	72-	2-20-8	0.06	0.01	0.014	2.2	11										
ENDRIN ALDEHYDE	742	21-93-4	-			-											
ENDRIN KETONE	534	494-70-5															
gamma BHC (Lindane)	58-	-89-9	0.1	6	0.1	0.28	1.3										
gamma Chlordane	510	03-74-2	14			0.54											
HEPTACHLOR		-44-8	0.38	0.14	0.042	0.42	2.1										
HEPTACHLOR EPOXIDE		24-57-3	0.02	-	-	0.077											
METHOXYCHLOR		-43-5	900	1.2	-	100											
TOXAPHENE	800	01-35-2															
Metals		<u>-</u>									10.000	12.12.	12.71			10.111	
Aluminum		29-90-5	-	10000	-			22,000	17,600	14,100	16,000	13,100	18,700	17,800	16,800	17,400	18,000
Antimony		40-36-0	-	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 Barium	/44	40-38-2						0.00					0.00	0.04	_	0.00	
	744		16	13	13	16 250	16	8.99	<u>88.5</u>	13.6	8.2	9.81	8.68	8.34	7	6.93	7.65
		40-39-3	820	433	350	350	400	112	<u>88.5</u> 105	13.6 75.1	8.2 67.9	9.81 48.1	69.5	72.9	50.3	61.3	56.7
Beryllium	744	40-39-3 40-41-7	820 47	433 10	350 7.2	350 14	400 72	112 1.04	<u>88.5</u> 105 0.84	13.6 75.1 0.636	8.2 67.9 0.629	9.81 48.1 0.486	69.5 0.935	72.9 0.69	50.3 0.735	61.3 0.886	56.7 0.77
Beryllium Cadmium	744 744	40-39-3 40-41-7 40-43-9	820	433 10 4	350	350	400	112 1.04 0.375	88.5 105 0.84 0.254	13.6 75.1 0.636 0.115 J	8.2 67.9 0.629 0.0523 J	9.81 48.1 0.486 0.135 J	69.5 0.935 0.134 J	72.9 0.69 0.0912 J	50.3 0.735 0.0657 J	61.3 0.886 0.0935 J	56.7 0.77 0.0738 J
Beryllium	744 744 744	40-39-3 40-41-7	820 47 7.50	433 10	350 7.2 2.5	350 14	400 72 4.3	112 1.04	88.5 105 0.84 0.254 1,540	13.6 75.1 0.636	8.2 67.9 0.629	9.81 48.1 0.486	69.5 0.935	72.9 0.69	50.3 0.735	61.3 0.886	56.7 0.77 0.0738 J 239
Beryllium Cadmium Calcium	744 744 744	40-39-3 40-41-7 40-43-9 40-70-2	820 47 7.50	433 10 4 10000	350 7.2 2.5	350 14 2.5 	400 72 4.3	112 1.04 0.375 1,140	88.5 105 0.84 0.254	13.6 75.1 0.636 0.115 J 1,100	8.2 67.9 0.629 0.0523 J 786	9.81 48.1 0.486 0.135 J 29,300	69.5 0.935 0.134 J 1,360	72.9 0.69 0.0912 J 863	50.3 0.735 0.0657 J 298	61.3 0.886 0.0935 J 286	56.7 0.77 0.0738 J
Beryllium Cadmium Calcium Chromium	744 744 744 744	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3	820 47 7.50 	433 10 4 10000	350 7.2 2.5 30	350 14 2.5 36	400 72 4.3 180	112 1.04 0.375 1,140 26.4	88.5 105 0.84 0.254 1,540 18.3	13.6 75.1 0.636 0.115 J 1,100 13.7	8.2 67.9 0.629 0.0523 J 786 16.4	9.81 48.1 0.486 0.135 J 29,300 13.7	69.5 0.935 0.134 J 1,360 16.7	72.9 0.69 0.0912 J 863 16.5	50.3 0.735 0.0657 J 298 16.9	61.3 0.886 0.0935 J 286 15.1	56.7 0.77 0.0738 J 239 17.2
Beryllium Cadmium Calcium Chromium Cobalt	744 744 744 744 744 744	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4	820 47 7.50 	433 10 4 10000 20	350 7.2 2.5 30	350 14 2.5 36 30	400 72 4.3 180	112 1.04 0.375 1,140 26.4 16.5	88.5 105 0.84 0.254 1,540 18.3 9.73	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43	8.2 67.9 0.629 0.0523 J 786 16.4 8.12	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15	69.5 0.935 0.134 J 1,360 16.7 9.17	72.9 0.69 0.0912 J 863 16.5 9.99	50.3 0.735 0.0657 J 298 16.9 10.4	61.3 0.886 0.0935 J 286 15.1 9.44	56.7 0.77 0.0738 J 239 17.2
Beryllium Cadmium Calcium Chromium Cobalt Copper	744 744 744 744 744 744 743	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8	820 47 7.50 1720	433 10 4 10000 20 50	350 7.2 2.5 30 50	350 14 2.5 36 30 270	400 72 4.3 180 270	112 1.04 0.375 1,140 26.4 16.5 33.9	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43	8.2 67.9 0.629 0.0523 J 786 16.4 8.12	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15	69.5 0.935 0.134 J 1,360 16.7 9.17	72.9 0.69 0.0912 J 863 16.5 9.99	50.3 0.735 0.0657 J 298 16.9 10.4	61.3 0.886 0.0935 J 286 15.1 9.44	56.7 0.77 0.0738 J 239 17.2 11.2 20.8
Beryllium Cadmium Calcium Chromium Cobalt Copper	744 744 744 744 744 744 743	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8 39-89-6	820 47 7.50 1720	433 10 4 10000 20 50	350 7.2 2.5 30 50	350 14 2.5 36 30 270 2000	400 72 4.3 180 270	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	744 744 744 744 744 743 743 743	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8 39-89-6 39-92-1 39-95-4 39-96-5	820 47 7.50 1720 450 2000	433 10 4 10000 20 50 63 1600	350 7.2 2.5 30 50 63 1600	350 14 2.5 36 30 270 2000 400 2000	400 72 4.3 180 270 400 2000	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	744 744 744 744 744 743 743 743 743	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8 39-89-6 339-99-1 339-95-4 40-02-0	820 47 7.50 1720 450	433 10 4 10000 20 50 63	350 7.2 2.5 30 50 63	350 14 2.5 36 30 270 2000 400	400 72 4.3 180 270 400	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	744 744 744 744 744 743 743 743 743 744	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8 39-89-6 39-92-1 39-95-4 39-96-5 40-02-0 40-09-7	820 47 7.50 1720 450 2000 130	433 10 4 10000 20 50 63 1600 30	350 7.2 2.5 30 50 63 1600 30	350 14 2.5 36 30 270 2000 400 2000 140	400 72 4.3 180 270 400 2000 310	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1 2,820	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3 1,210	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1 1,260	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4 1,460	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3 1,260	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1 1,280	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2 1,290	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5 1,130	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8 1,610
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	744 744 744 744 744 743 743 743 743 744 744	40-39-3 40-41-7 40-43-9 40-47-3 40-47-3 40-48-4 40-50-8 39-89-6 39-92-1 39-95-4 39-96-5 40-02-0 40-09-7 82-49-2	820 47 7.50 1720 450 2000 130 4	433 10 4 10000 20 50 63 1600 30 3.9	350 7.2 2.5 30 50 63 1600 30 3.9	350 14 2.5 36 30 270 2000 400 2000 140 36	400 72 4.3 180 270 400 2000 310 180	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1 2,820 0.150 J	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6 1,780 0.449 J	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3 1,210 0.293 J	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1 1,260 0.297 J	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4 1,460 0.159 J	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3 1,260 0.343 J	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1 1,280 0.227 J	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2 1,290 0.320 J	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5 1,130 0.260 J	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8 1,610 0.219 J
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	744 744 744 744 744 743 743 743 743 744 744	40-39-3 40-41-7 40-43-9 40-47-3 40-48-4 40-50-8 339-89-6 339-92-1 339-95-4 339-96-5 40-02-0 40-09-7 82-49-2 40-22-4	820 47 7.50 1720 450 2000 130 4 8.3	433 10 4 10000 20 50 63 1600 30 3.9	350 7.2 2.5 30 50 63 1600 30 3.9	350 14 2.5 36 30 270 2000 400 2000 140 36 36	400 72 4.3 180 270 400 2000 310 180	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1 2,820 0,150 J < 0,0266	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6 1,780 0.449 J 0.158 J	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3 1,210 0.293 J 0.0362 J	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1 1,260 0.297 J < 0.0255	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4 1,460 0.159 J 0.0371 J	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3 1,260 0.343 J 0.0712 J	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1 1,280 0.227 J 0.0595 J	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2 1,290 0.320 J 0.0473 J	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5 1,130 0.260 J 0.0632 J	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8 1,610 0.219 J 0.0403 J
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	744 744 744 744 744 743 743 743 744 744	40-39-3 40-41-7 40-43-9 40-47-3 40-48-4 40-50-8 339-89-6 339-92-1 339-95-4 339-95-4 40-02-0 40-02-0 40-02-0 40-02-0 40-02-4 40-22-4 40-23-5	820 47 7.50 1720 450 2000 130 4 8.3	433 10 4 10000 20 50 63 1600 30 3.9 2	350 7.2 2.5 30 50 63 1600 30 3.9 2	350 14 2.5 36 30 270 2000 400 2000 140 36 36	400 72 4.3 180 270 400 2000 310 180 180	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1 2,820 0.150 J < 0.0266 89.6 J	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6 1,780 0.449 J 0.158 J 46.5 J	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3 1,210 0.293 J 0.0362 J 44.6 J	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1 1,260 0.297 J < 0.0255 47.7 J	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4 1,460 0.159 J 0.0371 J 53.7 J	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3 1,260 0.343 J 0.0712 J 47.0 J	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1 1,280 0.227 J 0.0595 J 44.5 J	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2 1,290 0.320 J 0.0473 J 30.7 J	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5 1,130 0.260 J 0.0632 J 31.8 J	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8 1,610 0.219 J 0.0403 J 38.5 J
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	744 744 744 744 744 743 743 743 744 744	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8 39-89-6 39-92-1 39-95-4 39-96-5 40-02-0 40-09-7 40-09-7 40-09-7 40-22-4 40-23-5 40-22-4	820 47 7.50 1720 450 2000 130 4 8.3	433 10 4 10000 20 50 63 1600 30 3.9 2	350 7.2 2.5 30 50 63 1600 30 3.9 2	350 14 2.5 36 30 270 2000 400 2000 140 36 36 	400 72 4.3 180 2000 310 180 180	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1 2,820 0.150 J < 0.0266 89.6 J 0.179 J	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6 1,780 0.449 J 0.158 J 46.5 J 0.169	75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3 1,210 0.293 J 0.0362 J 44.6 J 0.123 J	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1 1,260 0.297 J < 0.0255 47.7 J 0.140 J	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4 1,460 0.159 J 0.0371 J 53.7 J 0.0799 J	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3 1,260 0.343 J 0.0712 J 47.0 J 0.144 J	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1 1,280 0.227 J 0.0595 J 44.5 J 0.133 J	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2 1,290 0.320 J 0.0473 J 30.7 J 0.118 J	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5 1,130 0.260 J 0.0632 J 31.8 J 0.132 J	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8 1,610 0.219 J 0.0403 J 38.5 J 0.139 J
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	744 744 744 744 744 743 743 743 744 744	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8 39-89-6 39-99-1 339-95-5 40-02-0 40-09-7 82-49-2 40-22-4 40-23-5 40-28-0 40-62-2	820 47 7.50 1720 450 2000 130 4 8.3	433 10 4 100000 20 50 63 1600 30 3.9 2 5	350 7.2 2.5 30 50 1600 30 3.9 2	350 14 2.5 36 30 270 2000 400 2000 140 36 36 36 100	400 72 4.3 180 270 400 310 180 180	112 1.04 0.375 1.140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1 2,820 0.150 J < 0.0266 89.6 J 0.179 J 31.4	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6 1,780 0.449 J 0.158 J 46.5 J 0.169 29.5	13.6 75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3 1,210 0.293 J 0.0362 J 44.6 J 0.123 J 19.4	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1 1,260 0.297 J < 0.0255 47.7 J 0.140 J 21.9	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4 1,460 0.159 J 0.0371 J 53.7 J 0.0799 J 21.4	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3 1,260 0.343 J 0.0712 J 47.0 J 0.144 J 25	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1 1,280 0.227 J 0.0595 J 44.5 J 0.133 J 24.1	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2 1,290 0.320 J 0.0473 J 30.7 J 0.118 J 26.1	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5 1,130 0.260 J 0.0632 J 31.8 J 0.132 J 22.3	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8 1,610 0.219 J 0.0403 J 38.5 J 0.139 J 25.1
Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	744 744 744 744 744 743 743 743 743 744 744	40-39-3 40-41-7 40-43-9 40-70-2 40-47-3 40-48-4 40-50-8 39-89-6 39-92-1 39-95-4 39-96-5 40-02-0 40-09-7 40-09-7 40-09-7 40-22-4 40-23-5 40-22-4	820 47 7.50 1720 450 2000 130 4 8.3	433 10 4 10000 20 50 63 1600 30 3.9 2	350 7.2 2.5 30 50 63 1600 30 3.9 2	350 14 2.5 36 30 270 2000 400 2000 140 36 36 	400 72 4.3 180 2000 310 180 180	112 1.04 0.375 1,140 26.4 16.5 33.9 38,400 17.6 8,340 1,680 39.1 2,820 0.150 J < 0.0266 89.6 J 0.179 J	88.5 105 0.84 0.254 1,540 18.3 9.73 20.1 23,200 25.8 4,910 1,050 22.6 1,780 0.449 J 0.158 J 46.5 J 0.169	75.1 0.636 0.115 J 1,100 13.7 7.43 12.8 17,100 12.5 3,270 753 15.3 1,210 0.293 J 0.0362 J 44.6 J 0.123 J	8.2 67.9 0.629 0.0523 J 786 16.4 8.12 12.4 20,700 9.23 3,940 465 16.1 1,260 0.297 J < 0.0255 47.7 J 0.140 J	9.81 48.1 0.486 0.135 J 29,300 13.7 9.15 27.4 24,900 27.8 16,500 1,110 21.4 1,460 0.159 J 0.0371 J 53.7 J 0.0799 J	69.5 0.935 0.134 J 1,360 16.7 9.17 15.4 23,800 15.2 4,720 827 19.3 1,260 0.343 J 0.0712 J 47.0 J 0.144 J	72.9 0.69 0.0912 J 863 16.5 9.99 15.7 24,000 10.5 4,630 491 19.1 1,280 0.227 J 0.0595 J 44.5 J 0.133 J	50.3 0.735 0.0657 J 298 16.9 10.4 18.7 24,900 16.1 4,340 748 19.2 1,290 0.320 J 0.0473 J 30.7 J 0.118 J	61.3 0.886 0.0935 J 286 15.1 9.44 16.3 24,300 12.4 4,200 882 18.5 1,130 0.260 J 0.0632 J 31.8 J 0.132 J	56.7 0.77 0.0738 J 239 17.2 11.2 20.8 26,300 12.9 4,970 753 20.8 1,610 0.219 J 0.0403 J 38.5 J 0.139 J

--: 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 ield Sample ID Depth Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB11 5/24/2017 OU1EESB11-S-0.17- 0.17-0.5	OU1EESB11 5/24/2017 OU1EESB11-S-0.50- 0.5-1	OU1EESB11 5/24/2017 OU1EESB11-S-1.00- 1-2	OU1EESB11 5/24/2017 OU1EESB11-SD-0.50- 0.5-1	OU1EESB12 5/24/2017 OU1EESB12-S-0.17- 0.17-0.5	OU1EESB12 5/24/2017 OU1EESB12-S-0.50- 0.5-1	OU1EESB12 5/24/2017 OU1EESB12-S-1.00- 1-2	OU1EESB13 6/1/2017 OU1EESB13-S-0.17- 0.17-0.5	OU1EESB13 6/1/2017 OU1EESB13-S-0.50- 0.5-1	OU1EESB13 6/1/2017 OU1EESB13-S-1.00- 1-2
	mple Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
Volatile Organic Compounds					,	,					,		0			
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 (Freor	n 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 (DBC	(P) 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-Dichlorober	nzene) 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	<u>0.16</u>	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	< 0.000	< 0.001	< 0.001		-				
Bromodichloromethane	75-27-4	-														
	75-25-2		-	-			< 0.001	< 0.001	< 0.001	< 0.001						-
Bromoform Bromomothono (Mothyl bromide)		-	-	-	-		< 0.001	< 0.001	< 0.001	< 0.001						
Bromomethane (Methyl bromide) Carbon disulfide	74-83-9	-	-	-		-	< 0.003	< 0.003	< 0.002	< 0.003						
	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 (Dichloromethar		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						
ert-Amyl methyl ether	994-05-8						< 0.001	< 0.001	< 0.001	< 0.001						
Fertiary Butyl Alcohol	75-65-0						< 0.028	< 0.026	< 0.025	< 0.029						
etrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.028	< 0.026	< 0.025	< 0.029		-		-		-
	108-88-3	0.7	36	0.7	100	100				< 0.001						
Foluene							< 0.001	< 0.001	< 0.001							
rans-1,2-Dichloroethene	156-60-5	0.19	-	0.19	100	100	< 0.001	< 0.001	< 0.001	< 0.001						
rans-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						
(ylene (total)	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	< 0.001						



Sa Parameter Name	Location ID Sample Date eld Sample ID Depth Interval mple Purpose 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	< 0.022	< 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
4.4-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
,4-Dinitrotoluene ,6-Dinitrotoluene	121-14-2 606-20-2	0.17			1.03		< 0.093 < 0.023	< 0.088 < 0.022	< 0.092 < 0.023	< 0.1 < 0.026	< 0.11 < 0.027	< 0.092 < 0.023	< 0.083 < 0.021	< 0.095 < 0.024	< 0.083 < 0.021	< 0.081 < 0.02
2-Chloronaphthalene	91-58-7						< 0.009	< 0.022	< 0.009	< 0.01	< 0.027	< 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
?-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'-Dichlorobenzidine	91-94-1				-		< 0.14	< 0.13	< 0.14	< 0.16	< 0.16	< 0.14	< 0.12	< 0.14	< 0.12	< 0.12
-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
1,6-Dinitro-2-methylphenol (4,6-Din 1-Bromophenylphenylether	tro-o-cresol) 534-52-1 101-55-3	-	-		-		< 0.23 < 0.023	< 0.22 < 0.022	< 0.23 < 0.023	< 0.26 < 0.026	< 0.27 < 0.027	< 0.23 < 0.023	< 0.21 < 0.021	< 0.24 < 0.024	< 0.21 < 0.021	< 0.2 < 0.02
1-Chloroaniline	106-47-8	0.22			100	-	< 0.025	< 0.022	< 0.023	< 0.052	< 0.054	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
4-Chlorophenyl phenyl ether	7005-72-3						< 0.023	< 0.022	< 0.023	< 0.032	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
1-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
1-Nitroaniline	100-01-6						< 0.093	< 0.088	< 0.092	< 0.1	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
1-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
cenaphthylene	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
cetophenone	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 Benzaldehyde	1912-24-9 100-52-7	-	-		-		< 0.046	< 0.044	< 0.046	< 0.052 < 0.10	< 0.054	< 0.046	< 0.042	< 0.047	< 0.042	< 0.041
Benzo(a)anthracene	56-55-3	1			-	1	0.13 J 0.021 J	< 0.088 0.007 J	< 0.092 < 0.005	0.008 J	< 0.11 0.009 J	< 0.092 < 0.005	< 0.083 < 0.004	< 0.095 0.017 J	< 0.083 0.005 J	< 0.081 < 0.004
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.034	0.007 J	< 0.005	0.012 J	0.003 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		8.0	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
ois(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
ois(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
ois(2-chloroisopropyl) ether ois(2-Ethylhexyl)phthalate	108-60-1	435	239		50		< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
Butylbenzylphthalate	117-81-7 85-68-7	122	239		100		< 0.093 < 0.093	< 0.088 < 0.088	< 0.092 < 0.092	< 0.1 < 0.1	< 0.11 < 0.11	< 0.092 < 0.092	< 0.083 < 0.083	< 0.095 < 0.095	< 0.083 < 0.083	< 0.081 < 0.081
Caprolactam	105-60-2			-			< 0.046	< 0.044	< 0.046	< 0.052	0.067 J	< 0.046	< 0.042	< 0.047	< 0.042	< 0.041
Carbazole	86-74-8	-					< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
Chrysene	218-01-9	1		1	1	3.9	0.031	0.01 J	< 0.005	0.011 J	0.016 J	< 0.005	0.005 J	0.023 J	0.008 J	< 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01		100		< 0.093	< 0.088	< 0.092	< 0.1	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
Di-n-octylphthalate	117-84-0	120			100		< 0.093	< 0.088	< 0.092	< 0.1	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
Dibenz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	0.007 J	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004
Dibenzofuran	132-64-9	6.20		7	14	59	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
Diethylphthalate	84-66-2	7.1	100		100		< 0.093	< 0.088	< 0.092	< 0.1	< 0.11	< 0.092	< 0.083	< 0.095	< 0.083	< 0.081
Dimethyl phthalate Diphenyl (Biphenyl, Phenyl benzene	131-11-3 92-52-4	27	200 60		100	-	< 0.093 < 0.023	< 0.088 < 0.022	< 0.092 < 0.023	< 0.1 < 0.026	< 0.11 < 0.027	< 0.092 < 0.023	< 0.083 < 0.021	< 0.095 < 0.024	< 0.083 < 0.021	< 0.081 < 0.020
iluoranthene	206-44-0	1000		100	100	100	0.051	0.022 0.014 J	< 0.023	0.019 J	0.027 0.022 J	0.005 J	0.005 J	0.024	0.021 0.014 J	0.005 J
luorene	86-73-7	386	30	30	100	100	< 0.005	< 0.004	< 0.005	0.01 J	< 0.005	< 0.005	< 0.004	< 0.042	< 0.004	< 0.004
lexachlorobenzene	118-74-1	1.4		0.33	0.33	1.2	< 0.005	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004
lexachlorobutadiene	87-68-3				-		< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
exachlorocyclopentadiene	77-47-4	-	10		-		< 0.23	< 0.22	< 0.23	< 0.26	< 0.27	< 0.23	< 0.21	< 0.24	< 0.21	< 0.2
exachloroethane	67-72-1						< 0.046	< 0.044	< 0.046	< 0.052	< 0.054	< 0.046	< 0.042	< 0.047	< 0.042	< 0.041
deno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	0.019 J	0.007 J	< 0.005	< 0.005	0.008 J	< 0.005	< 0.004	0.014 J	0.006 J	< 0.004
ophorone	78-59-1	4.4			100	-	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
I-Nitrosodi-n-propylamine	621-64-7	-	20		-		< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
I-Nitrosodiphenylamine (Diphenyla Iaphthalene	mine) 86-30-6 91-20-3	12	20	12	100	100	< 0.023 0.006 J	< 0.022 < 0.004	< 0.023 0.005 J	< 0.026 < 0.005	< 0.027 0.006 J	< 0.023 < 0.005	< 0.021 0.004 J	< 0.024 0.007 J	< 0.021 < 0.004	< 0.02 < 0.004
litrobenzene	98-95-3	0.17	40		3.7	15	< 0.006 3	< 0.004	< 0.023	< 0.005	< 0.027	< 0.005	< 0.004 3	< 0.024	< 0.004	< 0.004
-Chloro-m-cresol	59-50-7						< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
entachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.046	< 0.044	< 0.046	< 0.052	< 0.054	< 0.046	< 0.042	< 0.047	< 0.042	< 0.041
henanthrene	85-01-8	1000		100	100	100	0.031	0.009 J	< 0.005	0.026 J	0.015 J	< 0.005	< 0.004	0.026	0.007 J	< 0.004
henol	108-95-2	0.33	30	0.33	100	100	< 0.023	< 0.022	< 0.023	< 0.026	< 0.027	< 0.023	< 0.021	< 0.024	< 0.021	< 0.02
yrene	129-00-0	1000		100	100	100	0.048	0.014 J	< 0.005	0.016 J	0.023 J	< 0.005	0.005 J	0.038	0.013 J	0.005 J



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parame	ter 375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Na			CP-51 PER	Objectives	Residential	Restricted										
Polychlorinated Biphenyls																
Aroclor 1016	12674-11-2	2												< 0.0052	< 0.0045	< 0.0044
Aroclor 1221	11104-28-2	2			-									< 0.0066	< 0.0057	< 0.0057
Aroclor 1232	11141-16-	5												< 0.012	< 0.01	< 0.0098
Aroclor 1242	53469-21-				-									< 0.0048	< 0.0041	< 0.0041
Aroclor 1248	12672-29-	i			-			-						< 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	1			-									< 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-			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-			-	-									< 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		-	-	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				0.077									< 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						1	40.000	40.000	40.000	04.000	40.000	44.700	40.000	40.500	10.100	10.500
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							0.054.1					0.484.1	0.04= 1	0.100.1	
			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	7440-38-2 7440-39-3	16 820	13 433	13 350	16 350	16 400	6.45 53.8	5.65 69.9	7.6 89.5	7.51 90.3	6.19 61.3	4.54 52.4	5.94 55.2	7.5 50.3	6.87 50.2	8.92 52.4
Barium Beryllium	7440-38-2 7440-39-3 7440-41-7	16 820 47	13 433 10	13 350 7.2	16 350 14	16 400 72	6.45 53.8 0.679	5.65 69.9 0.966	7.6 89.5 0.775	7.51 90.3 1.28	6.19 61.3 0.77	4.54 52.4 0.65	5.94 55.2 0.546	7.5 50.3 0.806	6.87 50.2 0.625	8.92 52.4 0.675
Barium Beryllium Cadmium	7440-38-2 7440-39-3 7440-41-7 7440-43-9	16 820 47 7.50	13 433 10 4	13 350 7.2 2.5	16 350 14 2.5	16 400 72 4.3	6.45 53.8 0.679 0.0780 J	5.65 69.9 0.966 0.0833 J	7.6 89.5 0.775 0.0686 J	7.51 90.3 1.28 0.120 J	6.19 61.3 0.77 0.133 J	4.54 52.4 0.65 0.0688 J	5.94 55.2 0.546 0.0573 J	7.5 50.3 0.806 0.128 J	6.87 50.2 0.625 0.117 J	8.92 52.4 0.675 0.127 J
Barium Beryllium Cadmium Calcium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	16 820 47 7.50	13 433 10 4 10000	13 350 7.2 2.5	16 350 14 2.5	16 400 72 4.3	6.45 53.8 0.679 0.0780 J 698	5.65 69.9 0.966 0.0833 J 443	7.6 89.5 0.775 0.0686 J 317	7.51 90.3 1.28 0.120 J 509	6.19 61.3 0.77 0.133 J 669	4.54 52.4 0.65 0.0688 J 315	5.94 55.2 0.546 0.0573 J 346	7.5 50.3 0.806 0.128 J 412	6.87 50.2 0.625 0.117 J 390	8.92 52.4 0.675 0.127 J 280
Barium Beryllium Cadmium Calcium Chromium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	16 820 47 7.50 	13 433 10 4 10000	13 350 7.2 2.5	16 350 14 2.5 36	16 400 72 4.3 180	6.45 53.8 0.679 0.0780 J 698 12.1	5.65 69.9 0.966 0.0833 J 443	7.6 89.5 0.775 0.0686 J 317 17.9	7.51 90.3 1.28 0.120 J 509 18.1	6.19 61.3 0.77 0.133 J 669 17.5	4.54 52.4 0.65 0.0688 J 315 13.9	5.94 55.2 0.546 0.0573 J 346 17.5	7.5 50.3 0.806 0.128 J 412 18.6	6.87 50.2 0.625 0.117 J 390 19.8	8.92 52.4 0.675 0.127 J 280 21.2
Barium Beryllium Cadmium Calcium Chromium Cobalt	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	16 820 47 7.50 	13 433 10 4 10000 20	13 350 7.2 2.5 30	16 350 14 2.5 36 30	16 400 72 4.3 180	6.45 53.8 0.679 0.0780 J 698 12.1 6.83	5.65 69.9 0.966 0.0833 J 443 14 7.45	7.6 89.5 0.775 0.0686 J 317 17.9	7.51 90.3 1.28 0.120 J 509 18.1 10.3	6.19 61.3 0.77 0.133 J 669 17.5	4.54 52.4 0.65 0.0688 J 315 13.9 7.12	5.94 55.2 0.546 0.0573 J 346 17.5	7.5 50.3 0.806 0.128 J 412 18.6 10.4	6.87 50.2 0.625 0.117 J 390 19.8 10.4	8.92 52.4 0.675 0.127 J 280 21.2
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-43-9 7440-47-3 7440-48-4 7440-50-8	16 820 47 7.50 1720	13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270	16 400 72 4.3 180 270	6.45 53.8 0.679 0.0780 J 698 12.1 6.83	5.65 69.9 0.966 0.0833 J 443 14 7.45	7.6 89.5 0.775 0.0686 J 317 17.9 12	7.51 90.3 1.28 0.120 J 509 18.1 10.3	6.19 61.3 0.77 0.133 J 669 17.5 8.59	4.54 52.4 0.65 0.0688 J 315 13.9 7.12	5.94 55.2 0.546 0.0573 J 346 17.5 9.51	7.5 50.3 0.806 0.128 J 412 18.6 10.4	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	16 820 47 7.50 1720	13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000	16 400 72 4.3 180 270	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	7440-38-2 7440-39-3 7440-41-7 7440-40-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	16 820 47 7.50 1720 450	13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-38-2 7440-39-3 7440-41-7 7440-40-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	16 820 47 7.50 1720 450	13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2,680	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-70-2 7440-47-3 7440-88-4 7449-90-8 7439-92-1 7439-95-4 7439-96-5	16 820 47 7.50 1720 450 2000	13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	16 400 72 4.3 180 270 400 2000	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2.680	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-5	16 820 47 7.50 1720 450 2000	13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2,680 589 15.1	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130	13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2,680 589 15.1 1,030	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985 15	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9 1,780	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2 1,540	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713 17.6	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7 1,390	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8 1,810	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5 1,660	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6 1,770	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9 1,990
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-5 7440-02-0 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310 180	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2,680 589 15.1 1,030 0.566 J	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985 15 1,120 0.451 J	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9 1,780 0.261 J	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2 1,540 0.519 J	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713 17.6 1,690	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7 1,390 0.288 J	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8 1,810 0.242 J	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5 1,660 0.524 J	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6 1,770 0.240 J	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9 1,990 0.203 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2,680 589 15.1 1,030 0.566 J 0.128 J	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985 15 1,120 0.451 J 0.103 J	7.6 89.5 0.7775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9 1,780 0.261 J 0.0748 J	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2 1,540 0.519 J 0.117 J	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713 17.6 1,690 0.474 J 0.0989 J	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7 1,390 0.288 J 0.0595 J	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8 1,810 0.242 J 0.0363 J	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5 1,660 0.524 J 0.0972 J	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6 1,770 0.240 J 0.0311 J	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9 1,990 0.203 J < 0.0281
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-38-2 7440-43-3 7440-41-7 7440-40-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-1 7439-95-4 7439-96-5 7440-09-7 7782-49-2 7440-22-4 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2,680 589 15.1 1,030 0.566 J 0.128 J	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985 15 1,120 0.451 J 0.103 J 42.4 J	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9 1,780 0.261 J 0.0748 J 48.9 J	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2 1,540 0.519 J 0.117 J 47.9 J	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713 17.6 1,690 0.474 J 0.0989 J 53.3 J	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7 1,390 0.288 J 0.0595 J 43.6 J	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8 1,810 0.242 J 0.0363 J 44.6 J	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5 1,660 0.524 J 0.0972 J 35.1 J	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6 1,770 0.240 J 0.0311 J 36.9 J	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9 1,990 0.203 J < 0.0281 38.9 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-70-2 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7440-09-7 7782-49-2 7440-22-4 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180 180	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2.680 589 15.1 1,030 0.566 J 0.128 J 49.9 J 0.162 J	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985 15 1,120 0.451 J 0.103 J 42.4 J 0.127 J	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9 1,780 0.261 J 0.0748 J 48.9 J 0.139 J	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2 1,540 0.519 J 0.117 J 47.9 J	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713 17.6 1,690 0.474 J 0.0989 J 53.3 J 0.178 J	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7 1,390 0.288 J 0.0595 J 43.6 J 0.138 J	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8 1,810 0.242 J 0.0363 J 44.6 J 0.124 J	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5 1,660 0.524 J 0.0972 J 35.1 J 0.158 J	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6 1,770 0.240 J 0.0311 J 36.9 J 0.118 J	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9 1,990 0.203 J < 0.0281 38.9 J 0.120 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-43-9 7440-61-8 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7440-9-7 7782-49-2 7440-22-4 7440-23-5 7440-8-0 7440-8-0	16 820 47 7.50 1720 2000 130 4 8.3	13 433 10 4 10000 20 50 63 1600 30 3.9 2 5 39	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 100	16 400 72 4.3 180 270 400 2000 310 180 180	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2,680 589 15.1 1,030 0.566 J 0.128 J 49.9 J 0.162 J 30.2	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985 15 1,120 0.451 J 0.103 J 42.4 J 0.127 J 22.5	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9 1,780 0.261 J 0.0748 J 48.9 J 0.139 J 25.3	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2 1,540 0.519 J 0.117 J 47.9 J 0.171 J 28	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713 17.6 1,690 0.474 J 0.0989 J 53.3 J 0.178 J 29.1	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7 1,390 0.288 J 0.0595 J 43.6 J 0.138 J 20.8	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8 1,810 0.242 J 0.0363 J 44.6 J 0.124 J 23.5	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5 1,660 0.524 J 0.0972 J 35.1 J 0.158 J 29.5	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6 1,770 0.240 J 0.0311 J 36.9 J 0.118 J 26.5	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9 1,990 0.203 J < 0.0281 38.9 J 0.120 J 27.1
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-70-2 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7440-09-7 7782-49-2 7440-22-4 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3 2480	13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180 180	6.45 53.8 0.679 0.0780 J 698 12.1 6.83 12.8 15,100 60.8 2.680 589 15.1 1,030 0.566 J 0.128 J 49.9 J 0.162 J	5.65 69.9 0.966 0.0833 J 443 14 7.45 11.3 17,700 14.5 3,080 985 15 1,120 0.451 J 0.103 J 42.4 J 0.127 J	7.6 89.5 0.775 0.0686 J 317 17.9 12 17.2 25,700 13.5 4,710 777 20.9 1,780 0.261 J 0.0748 J 48.9 J 0.139 J	7.51 90.3 1.28 0.120 J 509 18.1 10.3 15.6 23,300 18.4 4,000 1,290 19.2 1,540 0.519 J 0.117 J 47.9 J	6.19 61.3 0.77 0.133 J 669 17.5 8.59 14.6 20,800 22.7 3,850 713 17.6 1,690 0.474 J 0.0989 J 53.3 J 0.178 J	4.54 52.4 0.65 0.0688 J 315 13.9 7.12 11.1 18,400 10.6 3,270 587 14.7 1,390 0.288 J 0.0595 J 43.6 J 0.138 J	5.94 55.2 0.546 0.0573 J 346 17.5 9.51 15.5 23,300 11.5 4,200 543 17.8 1,810 0.242 J 0.0363 J 44.6 J 0.124 J	7.5 50.3 0.806 0.128 J 412 18.6 10.4 22.7 27,300 27.7 4,940 701 22.5 1,660 0.524 J 0.0972 J 35.1 J 0.158 J	6.87 50.2 0.625 0.117 J 390 19.8 10.4 23 30,700 16.7 5,700 687 23.6 1,770 0.240 J 0.0311 J 36.9 J 0.118 J	8.92 52.4 0.675 0.127 J 280 21.2 12.1 32.2 33,300 15.6 6,060 658 27.9 1,990 0.203 J < 0.0281 38.9 J 0.120 J

--: 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	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nam	ne	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										<u>/</u>
Volatile Organic Compounds		75.05.4	0.77		0.55	4	400										
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 (Fr		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 (D		96-12-8	-	-		-											
1,2-Dibromoethane		106-93-4	-			-											
1,2-Dichlorobenzene (o-Dichloro		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	9)	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		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	0.93	-	0.93												
Methylene chloride (Dichloromet		75-09-2	0.05	12	0.05	51	100										
•		75-09-2 95-47-6	0.05	12	0.05		100										
o-Xylene Styrene			-			-			-								-
tort Amul mothyl other		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 (Trichloroethylen		79-01-6	0.47	2	0.47	10	21										
Trichlorofluoromethane (Freon 1		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										



Sa Parameter Name	Location ID Sample Date eld Sample ID Depth Interval mple Purpose 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 2,4-Dimethylphenol	120-83-2 105-67-9	0.4	20	-	100	-	< 0.022 < 0.022	< 0.022 < 0.022	< 0.02 < 0.02	< 0.021 < 0.021	< 0.021 < 0.021	< 0.023 < 0.023	< 0.023 < 0.023	< 0.02 < 0.02	< 0.021 < 0.021	< 0.023 < 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 2-Methylphenol (o-Cresol)	91-57-6 95-48-7	36.4 0.33	-	0.33	0.41 100	100	< 0.004 < 0.022	< 0.004 < 0.022	< 0.004 < 0.02	0.028 < 0.021	< 0.004 < 0.021	< 0.005 < 0.023	< 0.005 < 0.023	< 0.004 < 0.02	< 0.004 < 0.021	0.005 J < 0.023
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.33		0.33			< 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-Din	, ,		-		-	-	< 0.22	< 0.22	< 0.2	< 0.21	< 0.21	< 0.23	< 0.23	< 0.2	< 0.21	< 0.23
4-Bromophenylphenylether 4-Chloroaniline	101-55-3 106-47-8		-		100	-	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
4-Chlorophenyl phenyl ether	7005-72-3	0.22	-		100		< 0.044 < 0.022	< 0.044 < 0.022	< 0.039 < 0.02	< 0.042 < 0.021	< 0.042 < 0.021	< 0.046 < 0.023	< 0.046 < 0.023	< 0.041 < 0.02	< 0.043 < 0.021	< 0.045 < 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	4000	-				< 0.022	< 0.022	< 0.020	< 0.021	< 0.021	< 0.023	< 0.023	< 0.020	< 0.021	< 0.023
Anthracene Atrazine	120-12-7 1912-24-9	1000	-	100	100	100	0.005 J < 0.044	< 0.004 < 0.044	< 0.004 < 0.039	0.028 < 0.042	< 0.004 < 0.042	< 0.005 < 0.046	0.006 J < 0.046	< 0.004 < 0.041	< 0.004 < 0.043	0.012 J < 0.045
Benzaldehyde	100-52-7						< 0.088	< 0.088	< 0.079	< 0.042	< 0.042	< 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 bis(2-Chloroethoxy)methane	207-08-9 111-91-1	1.7		0.8	1	3.9	0.005 J < 0.022	< 0.004 < 0.022	< 0.004 < 0.02	0.012 J < 0.021	< 0.004 < 0.021	< 0.005 < 0.023	0.01 J < 0.023	< 0.004 < 0.02	< 0.004 < 0.021	0.023 J < 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)phthalate	117-81-7	435	239		50		< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
Butylbenzylphthalate	85-68-7	122			100		< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
Caprolactam	105-60-2	-	-		-		< 0.044	< 0.044	< 0.039	< 0.042	< 0.042	< 0.046	< 0.046	< 0.041	< 0.043	< 0.045
Carbazole Chrysene	86-74-8 218-01-9	1	-	1	- 1	3.9	< 0.022 0.012 J	< 0.022 < 0.004	< 0.02 < 0.004	< 0.021 0.026	< 0.021 < 0.004	< 0.023 0.007 J	< 0.023 0.02 J	< 0.02 < 0.004	< 0.021 < 0.004	< 0.023 0.047
Di-n-butylphthalate	84-74-2	8,1	0.01		100	3.9	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.023	< 0.082	< 0.085	< 0.047
Di-n-octylphthalate	117-84-0	120			100	-	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
Dibenz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	0.007 J
Dibenzofuran	132-64-9	6.20	-	7	14	59	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
Diethylphthalate	84-66-2	7.1	100		100	-	< 0.088	< 0.088	< 0.079	< 0.085	< 0.084	< 0.092	< 0.093	< 0.082	< 0.085	< 0.091
Dimethyl phthalate Diphenyl (Biphenyl, Phenyl benzen	131-11-3 e) 92-52-4	27	200 60	-	100	-	< 0.088 < 0.022	< 0.088 < 0.022	< 0.079 < 0.020	< 0.085 < 0.021	< 0.084 < 0.021	< 0.092 < 0.023	< 0.093 < 0.023	< 0.082 < 0.020	< 0.085 < 0.021	< 0.091 < 0.023
Fluoranthene	206-44-0	1000		100	100	100	0.022 0.022 J	0.0022 0.006 J	< 0.020	0.19	< 0.021	0.023 0.011 J	0.023	< 0.020	0.021 0.004 J	0.068
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004	0.009 J	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004 3	< 0.005
Hexachlorobenzene	118-74-1	1.4	-	0.33	0.33	1.2	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.005
Hexachlorobutadiene	87-68-3						< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
Hexachlorocyclopentadiene	77-47-4	-	10		-		< 0.22	< 0.22	< 0.2	< 0.21	< 0.21	< 0.23	< 0.23	< 0.2	< 0.21	< 0.23
Hexachloroethane	67-72-1						< 0.044	< 0.044	< 0.039	< 0.042	< 0.042	< 0.046	< 0.046	< 0.041	< 0.043	< 0.045
Indeno(1,2,3-cd)Pyrene Isophorone	193-39-5 78-59-1	8.2 4.4	-	0.5	0.5 100	0.5	0.007 J < 0.022	< 0.004 < 0.022	< 0.004 < 0.02	0.012 J < 0.021	< 0.004 < 0.021	0.005 J < 0.023	0.012 J < 0.023	< 0.004 < 0.02	< 0.004 < 0.021	0.023 J < 0.023
N-Nitrosodi-n-propylamine	621-64-7		-	-			< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
N-Nitrosodiphenylamine (Diphenyla		-	20		_	-	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
Naphthalene	91-20-3	12	-	12	100	100	< 0.004	< 0.004	< 0.004	0.064	< 0.004	< 0.005	0.006 J	< 0.004	< 0.004	0.009 J
Nitrobenzene	98-95-3	0.17	40		3.7	15	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
p-Chloro-m-cresol	59-50-7	-			-		< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.023	< 0.023	< 0.02	< 0.021	< 0.023
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.044	< 0.044	< 0.039	< 0.042	< 0.042	< 0.046	< 0.046	< 0.041	< 0.043	< 0.045
Phenanthrene Phenol	85-01-8 108-95-2	1000 0.33	30	100 0.33	100 100	100 100	0.012 J < 0.022	0.005 J < 0.022	< 0.004 < 0.02	0.028 < 0.021	< 0.004 < 0.021	0.006 J < 0.023	0.019 J < 0.023	< 0.004 < 0.02	< 0.004 < 0.021	0.042 < 0.023
Pyrene	129-00-0	1000	30	100	100	100	< 0.022 0.016 J	< 0.022 0.006 J	< 0.02 < 0.004	0.021	< 0.021 0.005 J	< 0.023 0.011 J	0.023	< 0.02 0.004 J	< 0.021 0.006 J	< 0.023



Location ID ample Date if Sample ID pth Interval ble Purpose 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 OU1EESB15-8-0.17- 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
12674-11-2	-			_											
11104-28-2	-			-											
11141-16-5	-			-											
53469-21-9	-			-											
12672-29-6															
11097-69-1	-			-											
11096-82-5	-			-											
	-			-											
11100-14-4															
								1	1	<u> </u>				_	1
															
	0.1	6	0.1	0.28	1.3										
		-	-												
76-44-8		0.14	0.042	0.42	2.1										
1024-57-3	0.02			0.077											
72-43-5	900	1.2		100											
8001-35-2	-			-											
7429-90-5	-	10000		-		17,500	18,000	16,600	19,100	23,300	21,700	17,000	17,300	20,900	22,800
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
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
7440-39-3	820		350	350			86.2	67.9		78	59.4		65.1		93.9
7440-41-7	47		7.2	14			1.01	0.767		1.29	0.991		0.663		1.01
		4		2.5											0.271
	-														385
															21.9
															10.4
															20.2
7439-89-6 7439-92-1	450	63	63	2000 400	400	18,300 13.3	19,200 11.1	22,300 10	20,700 20.1	22,400 31.3	33,400 15.4	17,300 25.9	24,400 13.2	26,100 16.2	23,900 48.8
7439-92-1 7439-95-4	450	63	63	400	400	3,130	3,220	3,980	3,670	31.3	6,390	3,660	4,840	5,420	48.8
7439-96-5	2000	1600	1600	2000	2000	979	1,050	815	647	968	689	200	593	680	469
	2000	30	30	140	310	16.6	18.9	19	18.5	19.4	26.9	14.6	21.6	22.4	21.3
	130			1.70	010	889	926	971	911	1,150	1,060	1,220	1,220	2,380	1,860
7440-02-0	130						520	57.1	511				.,220	_,500	
7440-02-0 7440-09-7	-	-			180		0.319.1	0.252 .I	0.534.1	0.370.1	0.286.1	0.409.1	0.291 .I	0.387.1	0.750.1
7440-02-0 7440-09-7 7782-49-2	4	3.9	3.9	36	180	0.433 J	0.319 J 0.129 J	0.252 J 0.0677 J	0.534 J 0.147 J	0.370 J 0.149 J	0.286 J 0.0675 J	0.409 J 0.0808 J	0.291 J 0.0515 J	0.387 J 0.0505 J	0.750 J 0.163 J
7440-02-0 7440-09-7 7782-49-2 7440-22-4	-	-				0.433 J 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
7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	 4 8.3	3.9 2	 3.9 2	36 36	180 180	0.433 J 0.109 J 30.1 J	0.129 J 28.7 J	0.0677 J 24.1 J	0.147 J 37.8 J	0.149 J 44.6 J	0.0675 J 36.6 J	0.0808 J 58.3 J	0.0515 J 48.2 J	0.0505 J 64.3 J	0.163 J 78.5 J
7440-02-0 7440-09-7 7782-49-2 7440-22-4	 4 8.3 	 3.9 2 5	3.9 2 	36 36 	180 180 	0.433 J 0.109 J 30.1 J 0.150 J	0.129 J 28.7 J 0.120 J	0.0677 J 24.1 J 0.119 J	0.147 J 37.8 J 0.157 J	0.149 J 44.6 J 0.155 J	0.0675 J 36.6 J 0.113 J	0.0808 J 58.3 J 0.162 J	0.0515 J 48.2 J 0.135 J	0.0505 J 64.3 J 0.167 J	0.163 J 78.5 J 0.244 J
7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	 4 8.3 	3.9 2	3.9 2 	36 36 	180 180 	0.433 J 0.109 J 30.1 J	0.129 J 28.7 J	0.0677 J 24.1 J	0.147 J 37.8 J	0.149 J 44.6 J	0.0675 J 36.6 J	0.0808 J 58.3 J	0.0515 J 48.2 J	0.0505 J 64.3 J	0.163 J 78.5 J
	11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4 72-54-8 72-55-9 50-29-3 309-00-2 319-84-6 5103-71-9 319-85-7 319-86-8 60-57-1 959-98-8 33213-65-9 1031-07-8 72-20-8 7421-93-4 53494-70-5 58-89-9 5103-74-2 76-44-8 1024-57-3 72-43-5 8001-35-2 7429-90-5 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8	11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4 72-54-8	11104-28-2	11104-28-2	11104-28-2 - - - - - - - - - - - - <td< td=""><td>11104-28-2 - - - - - - - - - - - - <td< td=""><td>11104-28-2</td><td> 11104-28-2</td><td> 11104-28-2</td><td>11104-128-2</td><td> 1110428-2</td><td> 11104-28-2</td><td> 1114-282</td><td> 11104-282</td><td> 1111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1</td></td<></td></td<>	11104-28-2 - - - - - - - - - - - - <td< td=""><td>11104-28-2</td><td> 11104-28-2</td><td> 11104-28-2</td><td>11104-128-2</td><td> 1110428-2</td><td> 11104-28-2</td><td> 1114-282</td><td> 11104-282</td><td> 1111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1</td></td<>	11104-28-2	11104-28-2	11104-28-2	11104-128-2	1110428-2	11104-28-2	1114-282	11104-282	1111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1

--: 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							OU1EESB17	OU1EESB17	OU1EESB18	OU1EESB18	OU1EESB18	OU1EESB18	OU1EESB19	OU1EESB19	OU1EESB19	OU1EESB20
	Sample Date Field Sample ID Depth Interval				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	5/31/2017 OU1EESB17-S-0.50- 0.5-1	5/31/2017 OU1EESB17-S-1.00- 1-2	5/23/2017 OU1EESB18-S-0.17- 0.17-0.5	5/23/2017 OU1EESB18-S-0.50- 0.5-1	5/23/2017 OU1EESB18-S-1.00- 1-2	5/23/2017 OU1EESB18-SD-1.00- 1-2	5/23/2017 OU1EESB19-S-0.17- 0.17-0.5	5/23/2017 OU1EESB19-S-0.50- 0.5-1	5/23/2017 OU1EESB19-S-1.00- 1-2	5/24/2017 OU1EESB20-S-0.17- 0.17-0.5
	ample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name		Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
Volatile Organic Compounds		- 0 - 4		1			100			0.004	0.004	0.004	0.004		l	l	
1,1 Dichloroethene		5-35-4	0.33		0.33	100	100			< 0.001	< 0.001	< 0.001	< 0.001				
1,1,1-Trichloroethane		1-55-6	0.68	-	0.68	100	100			< 0.001	< 0.001	< 0.001	< 0.001				
1,1,2,2-Tetrachloroethane		9-34-5	0.6	-		35				< 0.001	< 0.001	< 0.001	< 0.001		-		
1,1,2-Trichloroethane		9-00-5	-	-						< 0.001	< 0.001	< 0.001	< 0.001				
1,1,2-Trichlorotrifluoroethane (Freo 1.1-Dichloroethane	-	6-13-1	0.07	-		100				< 0.002	< 0.003	< 0.002	< 0.002				
		5-34-3 7-61-6	0.27	20	0.27	19	26			< 0.001	< 0.001	< 0.001	< 0.001				
1,2,3-Trichlorobenzene		20-82-1		20		-				< 0.001	< 0.001	< 0.001	< 0.001				
1,2,4-Trichlorobenzene			3.4			-				< 0.001	< 0.001	< 0.001	< 0.001				
1,2-Dibromo-3-chloropropane (DBC		6-12-8	-	-		-				< 0.002	< 0.003	< 0.002	< 0.002		-		-
1,2-Dibromoethane		06-93-4		-		400	400			< 0.001	< 0.001	< 0.001	< 0.001				
1,2-Dichlorobenzene (o-Dichlorobe 1,2-Dichloroethane		5-50-1	1.1		1.1	100	100			< 0.001	< 0.001	< 0.001	< 0.001				
		07-06-2	0.02	10	0.02	2.3	3.1			< 0.001	< 0.001	< 0.001	< 0.001				
1,2-Dichloropropane		8-87-5		700		47				< 0.001	< 0.001	< 0.001	< 0.001		-		
1,3-Dichlorobenzene 1,4-Dichlorobenzene		41-73-1 06-46-7	2.4	20	2.4	17 9.8	49 13			< 0.001	< 0.001	< 0.001	< 0.001				
			1.8		1.8					< 0.001	< 0.001	< 0.001	< 0.001		-		
2-Butanone (Methyl ethyl ketone)		8-93-3	0.3	100	0.12	100	100			0.014	0.015	< 0.004	0.005 J				
2-Hexanone		91-78-6	-	-		-				< 0.003	< 0.004	< 0.003	< 0.003				
4-Methyl-2-pentanone		08-10-1	1							< 0.003	< 0.004	< 0.003	< 0.003				
Acetone		7-64-1	0.05	2.2	0.05	100	100			<u>0.16</u>	0.18	0.048	0.055				
Benzene		1-43-2	0.06	70	0.06	2.9	4.8			< 0.0006	< 0.0007	< 0.0006	< 0.0005		-		
Bromochloromethane		4-97-5	-	-		-				< 0.001	< 0.001	< 0.001	< 0.001				
Bromodichloromethane		5-27-4	-	-		-				< 0.001	< 0.001	< 0.001	< 0.001				-
Bromoform		5-25-2	-		-	-				< 0.001	< 0.001	< 0.001	< 0.001				
Bromomethane (Methyl bromide)		4-83-9	-	-		-				< 0.002	< 0.003	< 0.002	< 0.002		-		
Carbon disulfide		5-15-0	2.7			100				< 0.001	< 0.001	< 0.001	< 0.001				
Carbon Tetrachloride		6-23-5	0.76		0.76	1.4	2.4			< 0.001	< 0.001	< 0.001	< 0.001				
Chlorobenzene Chloroethane		08-90-7	1.1	40	1.1	100	100			< 0.001	< 0.001	< 0.001	< 0.001				
Chloroform		5-00-3	1.9							< 0.002	< 0.003	< 0.002	< 0.002				
		7-66-3	0.37	12	0.37	10	49			< 0.001	< 0.001	< 0.001	< 0.001				
Chloromethane (Methyl chloride) cis-1,2-Dichloroethene		4-87-3		-		59	400			< 0.002	< 0.003	< 0.002	< 0.002				
		56-59-2 0061-01-5	0.25	-	0.25	59	100			< 0.001	< 0.001	< 0.001	< 0.001				
cis-1,3-Dichloropropene			-	-		-			-	< 0.001	< 0.001	< 0.001	< 0.001				
Cyclohexane Dibromochloromethane		10-82-7 24-48-1	-	10		-				< 0.001	< 0.001	< 0.001	< 0.001				
Dichlorodifluoromethane (Freon 12			-			-				< 0.001	< 0.001	< 0.001	< 0.001				
		5-71-8 08-20-3	-	-		-				< 0.002	< 0.003	< 0.002	< 0.002				
Diisopropyl ether				-						< 0.001	< 0.001	< 0.001	< 0.001				
Ethyl-t-butylether Ethylbenzene		37-92-3 00-41-4		-		30	41			< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001				
Isopropylbenzene		8-82-8	2.3			100				< 0.001	< 0.001	< 0.001	< 0.001		-		
		YLENES-MP	2.3			100	-			< 0.001							-
m,p-Xylenes Methyl acetate		9-20-9	-			-	-			< 0.001	< 0.001 < 0.003	< 0.001 < 0.002	< 0.001 < 0.002				
Methyl-t-butyl ether					0.93												
		634-04-4 08-87-2	0.93	-	0.93	62	100			< 0.0006	< 0.0007	< 0.0006	< 0.0005				
Methylcyclohexane Methylene chloride (Dichlorometha		5-09-2	0.05	12	0.05	51	100			< 0.001	< 0.001	< 0.001	< 0.001		-		-
, ,		5-09-2 5-47-6	0.05	12	0.05	51	100			< 0.002 < 0.001	< 0.003 < 0.001	< 0.002 < 0.001	< 0.002 < 0.001				
o-Xylene Styrene			-	200	-	-									-		
Styrene		00-42-5 94-05-8	-	300	-	-	-		-	< 0.001	< 0.001	< 0.001	< 0.001	-	-		
ert-Amyl methyl ether			-	-		-				< 0.001	< 0.001	< 0.001	< 0.001				
Tertiary Butyl Alcohol		5-65-0	1.2		12					< 0.022	< 0.027	< 0.022	< 0.02				
Tetrachloroethene		27-18-4	1.3	2	1.3	5.5	19			< 0.001	< 0.001	< 0.001	< 0.001				
Toluene		08-88-3 Ec. co. E	0.7	36	0.7	100	100			< 0.001	< 0.001	< 0.001	< 0.001				
rans-1,2-Dichloroethene		56-60-5	0.19	-	0.19	100	100			< 0.001	< 0.001	< 0.001	< 0.001				
rans-1,3-Dichloropropene		0061-02-6								< 0.001	< 0.001	< 0.001	< 0.001				
Trichloroethene (Trichloroethylene)		9-01-6	0.47	2	0.47	10	21			< 0.001	< 0.001	< 0.001	< 0.001				
Trichlorofluoromethane (Freon 11)		5-69-4	-			-				< 0.002	< 0.003	< 0.002	< 0.002				
Vinyl chloride (Chloroethene)		5-01-4	0.02		0.02	0.21	0.9			< 0.001	< 0.001	< 0.001	< 0.001				
Xylene (total)	13	330-20-7	1.60	0.26	0.26	100	100			< 0.001	< 0.001	< 0.001	< 0.001				



S. Field Dej Samp Parameter Name	Location ID ample Date I Sample ID pth Interval Ile Purpose	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	3-91-1	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		-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		-95-4	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 2,4-Dichlorophenol		-06-2 0-83-2	0.4	10 20		100		< 0.022	< 0.019	< 0.021	< 0.025 < 0.025	< 0.02	< 0.02 < 0.02	< 0.026	< 0.019	< 0.022 < 0.022	< 0.12 < 0.12
2,4-Dimethylphenol		5-67-9			-		-	< 0.022 < 0.022	< 0.019 < 0.019	< 0.021 < 0.021	< 0.025	< 0.02 < 0.02	< 0.02	< 0.026 < 0.026	< 0.019 < 0.019	< 0.022	< 0.12
2,4-Dinitrophenol		-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	1-14-2	-	-				< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
2,6-Dinitrotoluene		6-20-2	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		-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) 2-Methyl-Naphthalene		-57-8 -57-6		0.80		100 0.41	-	< 0.022	< 0.019	< 0.021	< 0.025 < 0.005	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2-Methylphenol (o-Cresol)		-57-6 -48-7	36.4 0.33	-	0.33	100	100	0.004 J < 0.022	< 0.004 < 0.019	< 0.004 < 0.021	< 0.005	< 0.004 < 0.02	< 0.004 < 0.02	0.006 J < 0.026	< 0.004 < 0.019	< 0.004 < 0.022	0.098 J < 0.12
2-Nitroaniline (o-Nitroaniline)		-74-4	0.33	-				< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
2-Nitrophenol (o-Nitrophenol)		-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		-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-		4-52-1						< 0.22	< 0.19	< 0.21	< 0.25	< 0.2	< 0.2	< 0.26	< 0.19	< 0.22	< 1.2
4-Bromophenylphenylether 4-Chloroaniline		1-55-3 6-47-8	0.22	-		100		< 0.022	< 0.019	< 0.021 < 0.041	< 0.025 < 0.049	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022 < 0.044	< 0.12 < 0.24
4-Chlorophenyl phenyl ether		05-72-3					-	< 0.043 < 0.022	< 0.039 < 0.019	< 0.041	< 0.025	< 0.04 < 0.02	< 0.039 < 0.02	< 0.052 < 0.026	< 0.037 < 0.019	< 0.022	< 0.12
4-Methylphenol (p-Cresol)		6-44-5	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	0-01-6						< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
4-Nitrophenol	100	0-02-7	0.1	7		-	-	< 0.22	< 0.19	< 0.21	< 0.25	< 0.2	< 0.2	< 0.26	< 0.19	< 0.22	< 1.2
Acenaphthene		-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		8-96-8	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 Anthracene		-86-2 0-12-7	1000	-	100	100	100	< 0.022 0.006 J	< 0.019 < 0.004	< 0.021 0.004 J	< 0.025 < 0.005	< 0.020 < 0.004	< 0.020 < 0.004	< 0.026 0.15	< 0.019 < 0.004	< 0.022 < 0.004	< 0.12 1.5
Atrazine		12-24-9		-				< 0.043	< 0.039	< 0.041	< 0.049	< 0.040	< 0.039	< 0.052	< 0.004	< 0.004	< 0.24
Benzaldehyde		0-52-7						< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.10	< 0.074	< 0.088	< 0.47
Benzo(a)anthracene		-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	0.022	0.013 J	< 0.004	< 0.004	0.27	< 0.004	< 0.004	7
Benzo(b)fluoranthene		5-99-2	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	<u>9.4</u>
Benzo(g,h,i)perylene		1-24-2	1000 1.7	-	100 0.8	100	100 3.9	0.015 J	< 0.004	0.018 J	0.008 J	< 0.004	< 0.004	0.18 0.15	< 0.004	< 0.004	4.6
Benzo(k)fluoranthene pis(2-Chloroethoxy)methane		7-08-9 1-91-1	1.7	-	0.8	- 1	3.9	0.012 J < 0.022	< 0.004 < 0.019	0.011 J < 0.021	0.006 J < 0.025	< 0.004 < 0.02	< 0.004 < 0.02	< 0.026	< 0.004 < 0.019	< 0.004 < 0.022	< 0.12
ois(2-Chloroethyl) ether		1-44-4						< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
ois(2-chloroisopropyl) ether	108	8-60-1						< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
ois(2-Ethylhexyl)phthalate	117	7-81-7	435	239		50	-	< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
Butylbenzylphthalate		-68-7	122			100		< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
Caprolactam		5-60-2	-	-			-	< 0.043	< 0.039	< 0.041	< 0.049	< 0.040	< 0.039	< 0.052	< 0.037	0.077 J	< 0.24
Carbazole Chrysene		-74-8 8-01-9				1	3.9	< 0.022 0.022 J	< 0.019 < 0.004	< 0.021 0.022	< 0.025 0.015 J	< 0.02 < 0.004	< 0.02 < 0.004	0.067 0.27	< 0.019 < 0.004	< 0.022 < 0.004	1.1
Di-n-butylphthalate		-74-2	8.1	0.01		100	3.9	< 0.087	< 0.004	< 0.082	< 0.099	< 0.079	< 0.004	< 0.1	< 0.074	< 0.004	6.6 < 0.47
Di-n-octylphthalate		7-84-0	120		-	100	-	< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
Dibenz(a,h)anthracene	53-	-70-3	1000		0.33	0.33	0.33	0.005 J	< 0.004	0.008 J	< 0.005	< 0.004	< 0.004	0.031	< 0.004	< 0.004	1.1
Dibenzofuran		2-64-9	6.20		7	14	59	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	0.33
Diethylphthalate		-66-2	7.1	100		100		< 0.087	< 0.077	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1	< 0.074	< 0.088	< 0.47
Dimethyl phthalate Diphenyl (Biphenyl, Phenyl benzene)		1-11-3 -52-4	27	200 60		100	-	< 0.087	< 0.077 < 0.019	< 0.082	< 0.099	< 0.079	< 0.078	< 0.1 < 0.026	< 0.074 < 0.019	< 0.088	< 0.47 < 0.12
Fluoranthene		-52-4 6-44-0	1000		100	100	100	< 0.022 0.035	< 0.019	< 0.021 0.032	< 0.025 0.018 J	< 0.020 < 0.004	< 0.020 < 0.004	0.69	< 0.019 0.004 J	< 0.022 < 0.004	< 0.12 12
Fluorene		-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	0.048	< 0.004 3	< 0.004	0.62
Hexachlorobenzene		8-74-1	1.4	-	0.33	0.33	1.2	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.024
Hexachlorobutadiene	87-	-68-3	-	-		-	-	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
Hexachlorocyclopentadiene		-47-4	-	10		-		< 0.22	< 0.19	< 0.21	< 0.25	< 0.2	< 0.2	< 0.26	< 0.19	< 0.22	< 1.2
Hexachloroethane		-72-1	-					< 0.043	< 0.039	< 0.041	< 0.049	< 0.04	< 0.039	< 0.052	< 0.037	< 0.044	< 0.24
ndeno(1,2,3-cd)Pyrene		3-39-5 -59-1	8.2 4.4	-	0.5	0.5 100	0.5	0.013 J	< 0.004	0.015 J	0.007 J	< 0.004	< 0.004	0.17	< 0.004	< 0.004	4 0.12
sophorone N-Nitrosodi-n-propylamine		1-64-7	4.4	-		100	-	< 0.022 < 0.022	< 0.019 < 0.019	< 0.021 < 0.021	< 0.025 < 0.025	< 0.02 < 0.02	< 0.02 < 0.02	< 0.026 < 0.026	< 0.019 < 0.019	< 0.022 < 0.022	< 0.12 < 0.12
N-Nitrosodiphenylamine (Diphenylamin		-30-6		20	-		-	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
Naphthalene		-20-3	12	-	12	100	100	0.007 J	< 0.004	0.006 J	< 0.005	< 0.004	< 0.004	0.01 J	< 0.004	< 0.004	0.24
Nitrobenzene	98-	-95-3	0.17	40		3.7	15	< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
o-Chloro-m-cresol		-50-7	-			-		< 0.022	< 0.019	< 0.021	< 0.025	< 0.02	< 0.02	< 0.026	< 0.019	< 0.022	< 0.12
Pentachlorophenol		-86-5	0.8	0.8	0.8	2.4	6.7	< 0.043	< 0.039	< 0.041	< 0.049	< 0.04	< 0.039	< 0.052	< 0.037	< 0.044	< 0.24
Phenanthrene		-01-8	1000		100	100	100	0.02 J	< 0.004	0.017 J	0.01 J	< 0.004	< 0.004	0.54	< 0.004	< 0.004	7.4
Phenol	108	8-95-2	0.33	30	0.33 100	100 100	100 100	< 0.022 0.033	< 0.019 0.004 J	< 0.021 0.031	< 0.025 0.019 J	< 0.02 0.004 J	< 0.02 < 0.004	< 0.026	< 0.019	< 0.022	< 0.12



Parameter Na	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose ame Code	er 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										<u> </u>			<u> </u>			
Aroclor 1016	12674-11-2				-											
Aroclor 1221	11104-28-2		-		-											
Aroclor 1232 Aroclor 1242	11141-16-5 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 delta BHC	319-85-7	0.09	0.6	0.036	0.072	0.36										-
DIELDRIN	319-86-8 60-57-1	0.25 0.1	0.04 0.006	0.04 0.005	100 0.039	100 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					_		19,800	16,700	17,500	23,900	19.100	19.100	21,000	14,000	16,200	15 900
			40000						17.300	23.900	18,100	18,100	21,000	14,900	10.200	15,800
	7429-90-5		10000								0.105	- 0.112	0.177	0.404 1		0.200 1
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
Antimony Arsenic	7440-36-0 7440-38-2	 16	12 13	 13	 16	 16	0.366 J 8.76	0.125 J 5.28	0.164 J 5.46	0.182 J 7.67	6.32	6.53	9.57	6.45	< 0.128 7.2	8
Antimony Arsenic Barium	7440-36-0 7440-38-2 7440-39-3	 16 820	12 13 433	 13 350	 16 350	 16 400	0.366 J 8.76 77.5	0.125 J 5.28 53.4	0.164 J 5.46 62.6	0.182 J 7.67 105	6.32 60.3	6.53 58.5	9.57 55.8	6.45 41.3	< 0.128 7.2 47.3	8 81.7
Antimony Arsenic	7440-36-0 7440-38-2	 16	12 13	 13	 16	 16	0.366 J 8.76	0.125 J 5.28	0.164 J 5.46	0.182 J 7.67	6.32	6.53	9.57	6.45	< 0.128 7.2	8
Antimony Arsenic Barium Beryllium	7440-36-0 7440-38-2 7440-39-3 7440-41-7	 16 820 47	12 13 433 10	 13 350 7.2	 16 350 14	 16 400 72	0.366 J 8.76 77.5 0.838	0.125 J 5.28 53.4 0.643	0.164 J 5.46 62.6 0.621	0.182 J 7.67 105 0.908	6.32 60.3 0.526	6.53 58.5 0.546	9.57 55.8 0.852	6.45 41.3 0.572	< 0.128 7.2 47.3 0.655	8 81.7 0.759
Antimony Arsenic Barium Beryllium Cadmium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820 47 7.50	12 13 433 10 4	 13 350 7.2 2.5	16 350 14 2.5	 16 400 72 4.3	0.366 J 8.76 77.5 0.838 0.252	0.125 J 5.28 53.4 0.643 0.0941 J	0.164 J 5.46 62.6 0.621 0.124 J	0.182 J 7.67 105 0.908 0.119 J	6.32 60.3 0.526 0.0545 J	6.53 58.5 0.546 0.0535 J	9.57 55.8 0.852 0.203 J	6.45 41.3 0.572 0.0812 J	< 0.128 7.2 47.3 0.655 0.0936 J	8 81.7 0.759 0.195 J
Antimony Arsenic Barium Beryllium Cadmium Calcium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50 	12 13 433 10 4 10000	 13 350 7.2 2.5	 16 350 14 2.5	 16 400 72 4.3	0.366 J 8.76 77.5 0.838 0.252 10,100	0.125 J 5.28 53.4 0.643 0.0941 J 368	0.164 J 5.46 62.6 0.621 0.124 J 782	0.182 J 7.67 105 0.908 0.119 J 898	6.32 60.3 0.526 0.0545 J 402	6.53 58.5 0.546 0.0535 J 408	9.57 55.8 0.852 0.203 J 1,040	6.45 41.3 0.572 0.0812 J 833	< 0.128 7.2 47.3 0.655 0.0936 J 879	8 81.7 0.759 0.195 J 4,430
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50 	12 13 433 10 4 10000	 13 350 7.2 2.5	 16 350 14 2.5 36 30 270	 16 400 72 4.3 180	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2	6.32 60.3 0.526 0.0545 J 402 18.7 10.2	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5	6.45 41.3 0.572 0.0812 J 833 15.6 10.1	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-07-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000	 16 400 72 4.3 180 270	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000 400	 16 400 72 4.3 180 270 400	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000 400	 16 400 72 4.3 180 270 400	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-95-4 7439-96-5	 16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600	 13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	 16 400 72 4.3 180 270 400 2000	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 555	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-95-4 7439-96-5 7440-02-0	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	 16 400 72 4.3 180 270 400 2000 310	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020 299 22.5	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879 23.6	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410 24.5	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 555 20.3	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862 25.4	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634 18.9	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-98-6 7439-95-4 7439-96-5 7440-09-7	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	 16 400 72 4.3 180 270 400 2000 310	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323 18.2 2,250	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020 299 22.5 1,400	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879 23.6	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410 24.5 1,750	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598 19.8 1,340	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 555 20.3 1,570	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862 25.4 1,820	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615 18.2 1,230	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634 18.9 1,640	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743 24
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	 16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310 180	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323 18.2 2,250 0.535 J	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020 299 22.5 1,400 0.276 J	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879 23.6 990 0.317 J	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410 24.5 1,750 0.424 J	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598 19.8 1,340 0.230 J	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 5555 20.3 1,570 0.197 J	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862 25.4 1,820 0.227 J	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615 18.2 1,230 0.104 J	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634 18.9 1,640 0.128 J	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743 24 2,490 0.241 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-02-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180 180	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323 18.2 2,250 0.535 J 0.139 J	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020 299 22.5 1,400 0.276 J 0.0343 J	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879 23.6 990 0.317 J 0.0577 J	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410 24.5 1,750 0.424 J 0.0761 J	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598 19.8 1,340 0.230 J 0.0241 J	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 555 20.3 1,570 0.197 J < 0.0270	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862 25.4 1,820 0.227 J 0.0598 J	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615 18.2 1,230 0.104 J 0.0268 J	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634 18.9 1,640 0.128 J < 0.0307	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743 24 2,490 0.241 J 0.111 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	 16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310 180	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323 18.2 2,250 0.535 J 0.139 J 71.6 J	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020 299 22.5 1,400 0.276 J 0.0343 J 41.4 J	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879 23.6 990 0.317 J 0.0577 J 36.5 J	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410 24.5 1,750 0.424 J 0.0761 J 60.2 J	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598 19.8 1,340 0.230 J 0.0241 J 43.4 J	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 555 20.3 1,570 0.197 J < 0.0270 47.0 J	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862 25.4 1,820 0.227 J 0.0598 J 66.9 J	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615 18.2 1,230 0.104 J 0.0268 J 40.9 J	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634 18.9 1,640 0.128 J < 0.0307 53.9 J	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743 24 2,490 0.241 J 0.111 J 62.3 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323 18.2 2,250 0.535 J 0.139 J 71.6 J 0.170 J	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020 299 22.5 1,400 0.276 J 0.0343 J 41.4 J 0.104 J	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879 23.6 990 0.317 J 0.0577 J 36.5 J 0.128 J	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410 24.5 1,750 0.424 J 0.0761 J 60.2 J 0.177 J	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598 19.8 1,340 0.230 J 0.0241 J 43.4 J 0.129 J	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 555 20.3 1,570 0.197 J < 0.0270 47.0 J 0.128 J	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862 25.4 1,820 0.227 J 0.0598 J 66.9 J 0.151 J	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615 18.2 1,230 0.104 J 0.0268 J 40.9 J 0.0727 J	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634 18.9 1,640 0.128 J < 0.0307 53.9 J 0.0933 J	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743 24 2,490 0.241 J 0.111 J 62.3 J 0.138 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7440-97 7782-49-2 7440-22-0 7440-23-5 7440-28-0	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	 13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	0.366 J 8.76 77.5 0.838 0.252 10,100 22.6 6.41 16.9 19,900 36.1 6,790 323 18.2 2,250 0.535 J 0.139 J 71.6 J	0.125 J 5.28 53.4 0.643 0.0941 J 368 18.8 9.93 17.4 24,100 12 5,020 299 22.5 1,400 0.276 J 0.0343 J 41.4 J	0.164 J 5.46 62.6 0.621 0.124 J 782 21.6 11.8 15 27,400 21.4 5,530 879 23.6 990 0.317 J 0.0577 J 36.5 J	0.182 J 7.67 105 0.908 0.119 J 898 23.8 13.9 21.2 29,700 23.2 5,580 1,410 24.5 1,750 0.424 J 0.0761 J 60.2 J	6.32 60.3 0.526 0.0545 J 402 18.7 10.2 21.4 27,300 12.6 5,000 598 19.8 1,340 0.230 J 0.0241 J 43.4 J	6.53 58.5 0.546 0.0535 J 408 19.1 11.3 21.7 27,400 12.1 5,000 555 20.3 1,570 0.197 J < 0.0270 47.0 J	9.57 55.8 0.852 0.203 J 1,040 21.7 13.5 29.4 35,900 23.6 6,740 862 25.4 1,820 0.227 J 0.0598 J 66.9 J	6.45 41.3 0.572 0.0812 J 833 15.6 10.1 22.4 26,700 11.7 4,850 615 18.2 1,230 0.104 J 0.0268 J 40.9 J	< 0.128 7.2 47.3 0.655 0.0936 J 879 16.5 10.5 22.6 27,600 10.6 4,750 634 18.9 1,640 0.128 J < 0.0307 53.9 J	8 81.7 0.759 0.195 J 4,430 17.6 11.1 24.3 25,500 27.9 7,350 743 24 2,490 0.241 J 0.111 J 62.3 J

--: 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				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB20 5/24/2017 OU1EESB20-S-0.50- 0.5-1	OU1EESB20 5/24/2017 OU1EESB20-S-1.00- 1-2	OU1EESB21 5/25/2017 OU1EESB21-S-0.17- 0.17-0.5	OU1EESB21 5/25/2017 OU1EESB21-S-0.50- 0.5-1	OU1EESB21 5/25/2017 OU1EESB21-S-1.00- 1-2	OU1EESB22 5/30/2017 OU1EESB22-S-0.17- 0.17-0.5	OU1EESB22 5/30/2017 OU1EESB22-S-0.50- 0.5-1	OU1EESB22 5/30/2017 OU1EESB22-S-1.00- 1-2	OU1EESB23 5/30/2017 OU1EESB23-S-0.17- 0.17-0.5	OU1EESB23 5/30/2017 OU1EESB23-S-0.50- 0.5-1
Parameter Name	Sample Purpose	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Volatile Organic Compounds		Code	CF-31 FOG	OF-STEEK	Objectives	Residential	Restricted					<u> </u>					
1,1 Dichloroethene		75-35-4	0.33		0.33	100	100			<u></u>	-			<u></u>			
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 (Fre		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 (D		96-12-8															
1,2-Dibromoethane		106-93-4				-											
1,2-Dichlorobenzene (o-Dichlorol		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		2.3	3.1				-						
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	0.05	70	0.06	2.9	4.8				-	-					-
Bromochloromethane		71-43-2 74-97-5				2.9	4.0		-		-						
Bromodichloromethane		75-27-4															
Bromoform		75-25-2		-			-		-								
			-	-	-												
Bromomethane (Methyl bromide) Carbon disulfide		74-83-9 75-15-0		-													
Carbon Tetrachloride		56-23-5	2.7 0.76		0.76	100											
		108-90-7				1.4	2.4										
Chlorobenzene Chloroethane		75-00-3	1.1 1.9	40	1.1	100	100				-						
Chloroform		67-66-3		12	0.37	10	49		-								
		74-87-3	0.37	12			49										
Chloromethane (Methyl chloride) cis-1,2-Dichloroethene		156-59-2	0.25	-	0.25	59	100										
cis-1,3-Dichloropropene		10061-01-5	0.25	-	0.25	39	100					-					
Cyclohexane		110-82-7					-										
Dibromochloromethane		124-48-1	-	10			-				-						
Dichlorodifluoromethane (Freon 1		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	0.93		0.93				-		-						
Methylene chloride (Dichlorometh		75-09-2	0.05	12	0.05	 51	100		-								
o-Xylene		95-47-6			0.05						-	-					
0		100-42-5		300			-					-		<u> </u>			-
tert-Amyl methyl ether		994-05-8	-														
		75-65-0	-	-													
Tertiary Butyl Alcohol 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	0.47		0.47												
Trichloroethene (Trichloroethylen		79-01-6 75-60-4	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										



Sa Parameter Name	Location ID Sample Date leid Sample ID Depth Interval mple Purpose 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 2,4-Dichlorophenol	88-06-2 120-83-2	-	10		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	0.4	20				< 0.12 < 0.12	< 0.022 < 0.022	< 0.021 < 0.021	< 0.019 < 0.019	< 0.019 < 0.019	< 0.023 < 0.023	< 0.024 < 0.024	< 0.021 < 0.021	< 0.024 < 0.024	< 0.021 < 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	-			400	-	< 0.047	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.009	< 0.008	< 0.01	< 0.009
2-Chlorophenol (o-Chlorophenol) 2-Methyl-Naphthalene	95-57-8 91-57-6	36.4	0.80		100 0.41		< 0.12 < 0.023	< 0.022 0.005 J	< 0.021 < 0.004	< 0.019 < 0.004	< 0.019 < 0.004	< 0.023 < 0.005	< 0.024 < 0.005	< 0.021 < 0.004	< 0.024 < 0.005	< 0.021 < 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-Din 4-Bromophenylphenylether	itro-o-cresol) 534-52-1 101-55-3	-	-		-		< 1.2 < 0.12	< 0.22 < 0.022	< 0.21 < 0.021	< 0.19 < 0.019	< 0.19 < 0.019	< 0.23 < 0.023	< 0.24 < 0.024	< 0.21 < 0.021	< 0.24 < 0.024	< 0.21 < 0.021
4-Chloroaniline	106-47-8	0.22	_		100	-	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 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 Acenaphthylene	83-32-9 208-96-8	98 107	20	20 100	100 100	100 100	0.19 0.04 J	0.026 0.007 J	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.005 0.005 J	< 0.005 < 0.005	< 0.004 < 0.004	< 0.005 < 0.005	< 0.004 < 0.004
Acetophenone	98-86-2						< 0.12	< 0.022	< 0.004	< 0.019	< 0.019	< 0.023	< 0.003	< 0.004	< 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 20		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 Benzo(b)fluoranthene	50-32-8 205-99-2	22 1.70	2.6	1	1	1	2 2.7	0.31 0.43	< 0.004 0.015 J	< 0.004 < 0.004	< 0.004 < 0.004	0.043 0.055	< 0.005 < 0.005	0.005 J < 0.004	0.006 J 0.008 J	< 0.004 < 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 bis(2-Ethylhexyl)phthalate	108-60-1 117-81-7	435	239		 50	-	< 0.12 < 0.47	< 0.022 < 0.086	< 0.021 0.096 J	< 0.019 < 0.078	< 0.019 < 0.075	< 0.023 < 0.094	< 0.024 < 0.094	< 0.021 < 0.084	< 0.024 < 0.095	< 0.021 < 0.085
Butylbenzylphthalate	85-68-7	122			100		< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
Caprolactam	105-60-2	-	-		_		< 0.23	< 0.043	< 0.042	< 0.039	< 0.038	< 0.047	< 0.047	< 0.042	< 0.048	< 0.043
Carbazole	86-74-8	-	-		-		0.27	0.037 J	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
Chrysene	218-01-9	1	-	1	1	3.9	<u>1.8</u>	0.26	0.009 J	< 0.004	< 0.004	0.052	< 0.005	< 0.004	0.01 J	< 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01		100		< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
Di-n-octylphthalate Dibenz(a,h)anthracene	117-84-0 53-70-3	120 1000	-	0.33	100 0.33	0.33	< 0.47 0.35	< 0.086 0.059	< 0.083 0.005 J	< 0.078 < 0.004	< 0.075 < 0.004	< 0.094 < 0.005	< 0.094 < 0.005	< 0.084 < 0.004	< 0.095 < 0.005	< 0.085 < 0.004
Dibenzofuran	132-64-9	6.20	-	7	14	59	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
Diethylphthalate	84-66-2	7.1	100	-	100	-	< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
Dimethyl phthalate	131-11-3	27	200		100	-	< 0.47	< 0.086	< 0.083	< 0.078	< 0.075	< 0.094	< 0.094	< 0.084	< 0.095	< 0.085
Diphenyl (Biphenyl, Phenyl benzen			60				< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
Fluoranthene Fluorene	206-44-0 86-73-7	1000 386	30	100 30	100 100	100 100	3.3 0.14	0.46 0.02 J	0.016 J	< 0.004 < 0.004	< 0.004	0.061	< 0.005 < 0.005	< 0.004 < 0.004	0.013 J	0.005 J < 0.004
Hexachlorobenzene	118-74-1	1.4		0.33	0.33	1.2	< 0.023	< 0.02 J	< 0.004 < 0.004	< 0.004	< 0.004 < 0.004	< 0.005 < 0.005	< 0.005 < 0.005	< 0.004 < 0.004	< 0.005 < 0.005	< 0.004
Hexachlorobutadiene	87-68-3		-				< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
Hexachlorocyclopentadiene	77-47-4		10		-		< 1.2	< 0.22	< 0.21	< 0.19	< 0.19	< 0.23	< 0.24	< 0.21	< 0.24	< 0.21
Hexachloroethane	67-72-1	-	-		-	-	< 0.23	< 0.043	< 0.042	< 0.039	< 0.038	< 0.047	< 0.047	< 0.042	< 0.048	< 0.043
ndeno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	1.2	0.2	< 0.004	< 0.004	< 0.004	0.032	< 0.005	< 0.004	< 0.005	< 0.004
Isophorone N-Nitrosodi-n-propylamine	78-59-1 621-64-7	4.4	-		100		< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
เง-เงเtrosodi-n-propylamine N-Nitrosodiphenylamine (Diphenyla		-	20		-		< 0.12 < 0.12	< 0.022 < 0.022	< 0.021 < 0.021	< 0.019 < 0.019	< 0.019 < 0.019	< 0.023 < 0.023	< 0.024 < 0.024	< 0.021 < 0.021	< 0.024 < 0.024	< 0.021 < 0.021
Naphthalene	91-20-3	12		12	100	100	0.046 J	0.008 J	< 0.021	< 0.004	< 0.004	0.005 J	< 0.005	< 0.021	< 0.005	< 0.004
Nitrobenzene	98-95-3	0.17	40		3.7	15	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
o-Chloro-m-cresol	59-50-7		-		-	-	< 0.12	< 0.022	< 0.021	< 0.019	< 0.019	< 0.023	< 0.024	< 0.021	< 0.024	< 0.021
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.23	< 0.043	< 0.042	< 0.039	< 0.038	< 0.047	< 0.047	< 0.042	< 0.048	< 0.043
Phenanthrene	85-01-8	1000		100	100	100	1.8	0.25	0.01 J	< 0.004	< 0.004	0.022 J	< 0.005	< 0.004	0.007 J	< 0.004
Phenol Pyrene	108-95-2 129-00-0	0.33 1000	30	0.33 100	100 100	100 100	< 0.12 3	< 0.022 0.45	< 0.021 0.015 J	< 0.019 < 0.004	< 0.019 < 0.004	< 0.023 0.057	< 0.024 < 0.005	< 0.021 < 0.004	< 0.024 0.013 J	< 0.021 < 0.004



Parameter No.	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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-0.5 0.5-1 REG
Parameter Nan Polychlorinated Biphenyls	me	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted					<u> </u>	<u> </u>	<u> </u>		<u> </u>	
Aroclor 1016	 	12674-11-2															
Aroclor 1221		11104-28-2	-		-				-								
Aroclor 1232		11141-16-5			-	-											
Aroclor 1242		3469-21-9		_	-					-	-						
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																	
1,4-DDD	-	72-54-8	14	0.0033	0.0033	2.6	13										
1,4-DDE		72-55-9	17	0.0033	0.0033	1.8	8.9							<u>-</u>		-	
1,4-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										
peta 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		3494-70-5															
gamma BHC (Lindane)		58-89-9	0.1	6	0.1	0.28	1.3										
gamma Chlordane		5103-74-2	14			0.54											
HEPTACHLOR	1	76-44-8	0.38	0.14	0.042	0.42	2.1										
HEPTACHLOR EPOXIDE	1	1024-57-3	0.02			0.077											
METHOXYCHLOR	-	72-43-5	900	1.2		100											
TOXAPHENE		3001-35-2				-											
Metals																	
Aluminum	1	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	1	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	1	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	1	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	1	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	1	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	1	7440-70-2	-	10000			-	2,250	1,020	936	784	988	990	449	456	313	216
Chromium	1	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	1	7440-48-4	-	20		30		9.76	9.72	13.7	12.9	12	9.51	11.2	12.4	9.46	14
Copper	1	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
ron	1	7439-89-6	-	-		2000		28,300	25,700	27,600	30,800	33,000	22,900	24,900	27,600	22,600	29,200
_ead	1	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	1	7439-95-4	-			-		5,910	5,360	5,280	6,180	5,950	3,920	4,200	4,310	3,930	5,050
Manganese	1	7439-96-5	2000	1600	1600	2000	2000	656	502	1,050	819	400	911	823	694	678	678
lickel	1	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
otassium	1	7440-09-7	-			-		2,050	1,720	1,940	2,210	1,900	1,580	1,480	1,840	1,200	1,330
Selenium	1	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	1	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	1	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	1	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
	7	7440-62-2		39		100		29.8	24.7	30	26.4	27.3	31.1	29.1	31.3	24.1	25.3
/anadium				400	109	2200	10000	70.2	60.8	86.2	69.7	66.8	78.7	76.6	76.5	81.8	81.3
/anadium Zinc	7	7440-66-6	2480	109	109	2200	10000			****		0.0313 J			0.0339 J		

--: 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



S Field	Location ID ample Date d Sample ID opth Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB23 5/30/2017 OU1EESB23-S-1.00- 1-2	OU1EESB24 6/1/2017 OU1EESB24-S-0.17- 0.17-0.5	OU1EESB24 6/1/2017 OU1EESB24-S-0.50- 0.5-1	OU1EESB24 6/1/2017 OU1EESB24-S-1.00- 1-2	OU1EESB25 6/1/2017 OU1EESB25-S-0.00- 0-0.17	OU1EESB25 6/1/2017 OU1EESB25-S-0.17- 0.17-0.5	OU1EESB25 6/1/2017 OU1EESB25-S-0.50- 0.5-1	OU1EESB25 6/1/2017 OU1EESB25-S-1.00- 1-2	OU1EESB26 6/1/2017 OU1EESB26-S-0.00- 0-0.17	OU1EESB26 6/1/2017 OU1EESB26-S-0.17- 0.17-0.5
Samı	ole Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
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 1	13) 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-Dichlorobenze		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										
			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	0.23	-			100			-				-			
			-			-							-			
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										



Sa Parameter Name	Location ID Sample Date leid Sample ID Depth Interval mple Purpose 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 2,4-Dichlorophenol	88-06-2 120-83-2		10		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	0.4	20				< 0.021 < 0.021	< 0.11 < 0.11	< 0.021 < 0.021	< 0.02 < 0.02	< 0.14 < 0.14	< 0.025 < 0.025	< 0.027 < 0.027	< 0.022 < 0.022	< 0.023 < 0.023	< 0.022 < 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) 2-Methyl-Naphthalene	95-57-8 91-57-6	36.4	0.80		100 0.41	-	< 0.021	< 0.11 0.025 J	< 0.021 0.006 J	< 0.02 < 0.004	< 0.14 < 0.029	< 0.025	< 0.027	< 0.022 < 0.004	< 0.023	< 0.022 < 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33		0.33	100	100	< 0.004 < 0.021	< 0.11	< 0.006 3	< 0.004	< 0.029	0.006 J < 0.025	< 0.005 < 0.027	< 0.004	< 0.005 < 0.023	< 0.004
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-Din	,		-		-		< 0.21	< 1.1	< 0.21	< 0.2	< 1.4	< 0.25	< 0.27	< 0.22	< 0.23	< 0.22
4-Bromophenylphenylether 4-Chloroaniline	101-55-3 106-47-8	0.22	-		100	-	< 0.021 < 0.042	< 0.11 < 0.23	< 0.021	< 0.02 < 0.04	< 0.14 < 0.29	< 0.025	< 0.027 < 0.055	< 0.022 < 0.043	< 0.023 < 0.045	< 0.022 < 0.043
4-Chlorophenyl phenyl ether	7005-72-3	0.22					< 0.042	< 0.23	< 0.042 < 0.021	< 0.02	< 0.29	< 0.049 < 0.025	< 0.027	< 0.022	< 0.043	< 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 Anthracene	98-86-2 120-12-7	1000	-	100	100	100	< 0.021 < 0.004	< 0.11 0.043 J	< 0.021 0.032	< 0.020 < 0.004	< 0.14 < 0.029	< 0.025 0.01 J	< 0.027 < 0.005	< 0.022 < 0.004	< 0.023 < 0.005	< 0.022 < 0.004
Atrazine	1912-24-9						< 0.042	< 0.23	< 0.042	< 0.040	< 0.029	< 0.049	< 0.055	< 0.043	< 0.005	< 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 0.8	100	100 3.9	< 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 bis(2-Chloroethoxy)methane	207-08-9 111-91-1	1.7	-	0.8	- 1	3.9	< 0.004 < 0.021	0.095 J < 0.11	0.11 < 0.021	0.009 J < 0.02	0.034 J < 0.14	0.018 J < 0.025	< 0.005 < 0.027	< 0.004 < 0.022	< 0.005 < 0.023	0.009 J < 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	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
Butylbenzylphthalate	85-68-7	122			100		< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
Caprolactam	105-60-2	-	-		-		< 0.042	< 0.23	< 0.042	< 0.040	< 0.29	< 0.049	< 0.055	< 0.043	< 0.045	< 0.043
Carbazole Chrysene	86-74-8 218-01-9	1	-	1		3.9	< 0.021 < 0.004	< 0.11 0.17	< 0.021 0.15	< 0.02 0.014 J	< 0.14 0.083 J	< 0.025 0.036	< 0.027 0.013 J	< 0.022 < 0.004	< 0.023 0.019 J	< 0.022 0.018 J
Di-n-butylphthalate	84-74-2	8,1	0.01		100	3.9	< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
Di-n-octylphthalate	117-84-0	120			100		< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
Dibenz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.004	0.032 J	0.039	< 0.004	0.056 J	0.011 J	0.006 J	< 0.004	0.005 J	< 0.004
Dibenzofuran	132-64-9	6.20	-	7	14	59	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
Diethylphthalate	84-66-2	7.1	100		100		< 0.084	< 0.45	< 0.084	< 0.079	< 0.58	< 0.099	< 0.11	< 0.086	< 0.091	< 0.086
Dimethyl phthalate Diphenyl (Biphenyl, Phenyl benzen	131-11-3 e) 92-52-4	27	200 60		100		< 0.084 < 0.021	< 0.45 < 0.11	< 0.084 < 0.021	< 0.079 < 0.020	< 0.58 < 0.14	< 0.099 < 0.025	< 0.11 < 0.027	< 0.086 < 0.022	< 0.091 < 0.023	< 0.086 < 0.022
Fluoranthene	206-44-0	1000		100	100	100	< 0.021	0.27	0.25	0.020	0.15	0.062	0.027 0.014 J	0.005 J	< 0.023	0.022
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.023	0.009 J	< 0.004	< 0.029	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004
Hexachlorobenzene	118-74-1	1.4	-	0.33	0.33	1.2	< 0.004	< 0.023	< 0.004	< 0.004	< 0.029	< 0.005	< 0.005	< 0.004	< 0.005	< 0.004
Hexachlorobutadiene	87-68-3				-		< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
Hexachlorocyclopentadiene	77-47-4	-	10		-		< 0.21	< 1.1	< 0.21	< 0.2	< 1.4	< 0.25	< 0.27	< 0.22	< 0.23	< 0.22
Hexachloroethane	67-72-1						< 0.042	< 0.23	< 0.042	< 0.04	< 0.29	< 0.049	< 0.055	< 0.043	< 0.045	< 0.043
Indeno(1,2,3-cd)Pyrene Isophorone	193-39-5 78-59-1	8.2 4.4	-	0.5	0.5 100	0.5	< 0.004 < 0.021	0.11 J < 0.11	0.13 < 0.021	0.009 J < 0.02	0.05 J < 0.14	0.022 J < 0.025	0.007 J < 0.027	< 0.004 < 0.022	0.007 J < 0.023	0.01 J < 0.022
N-Nitrosodi-n-propylamine	621-64-7		-				< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
N-Nitrosodiphenylamine (Diphenyla		-	20		-	-	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
Naphthalene	91-20-3	12	-	12	100	100	< 0.004	< 0.023	0.006 J	< 0.004	< 0.029	0.007 J	< 0.005	< 0.004	< 0.005	< 0.004
Nitrobenzene	98-95-3	0.17	40		3.7	15	< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	0.081	< 0.022
p-Chloro-m-cresol	59-50-7	-			-		< 0.021	< 0.11	< 0.021	< 0.02	< 0.14	< 0.025	< 0.027	< 0.022	< 0.023	< 0.022
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.042	< 0.23	< 0.042	< 0.04	< 0.29	< 0.049	< 0.055	< 0.043	< 0.045	< 0.043
Phenanthrene Phenol	85-01-8 108-95-2	1000 0.33	30	100 0.33	100 100	100 100	< 0.004 < 0.021	0.12 < 0.11	0.094 < 0.021	0.007 J < 0.02	0.077 J < 0.14	0.035 < 0.025	0.01 J < 0.027	< 0.004 < 0.022	0.012 J < 0.023	0.015 J < 0.022
Pyrene	129-00-0	1000	30	100	100	100	< 0.021 0.005 J	0.24	0.021	< 0.02 0.022	< 0.14 0.13 J	< 0.025 0.056	< 0.027 0.02 J	< 0.022 < 0.004	< 0.023 < 0.005	< 0.022 0.026



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Co		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	, 50	uc ,	<u> </u>	OF OTTER	Objectives	residential	Restricted	1	1		1	<u> </u>					
Aroclor 1016	12674-1	1-2												-			
Aroclor 1221	11104-2					-											
Aroclor 1232	11141-1					-											
Aroclor 1242	53469-2					-											
Aroclor 1248	12672-2	9-6				-						-					
Aroclor 1254	11097-6	9-1				-						-					
Aroclor 1260	11096-8	2-5				-											
Aroclor 1262	37324-2	3-5				-			-								
Aroclor 1268	11100-1	4-4															
Pesticides	<u> </u>																
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		2.9	1.30	0.094	0.91	4.2										
beta BHC	319-85-7 319-86-8		0.09	0.6	0.036	0.072	0.36										
delta BHC DIELDRIN	319-86-8 60-57-1	,	0.25 0.1	0.04 0.006	0.04 0.005	100 0.039	100 0.2										
Endosulfan I	959-98-8		102	0.006	2.4	4.8	24				-			-			
Endosulfan II	33213-6		102		2.4	4.8	24										
ENDOSULFAN SULFATE	1031-07		1000		2.4	4.8	24				-						
ENDRIN	72-20-8		0.06	0.01	0.014	2.2	11										
ENDRIN ALDEHYDE	7421-93																
ENDRIN KETONE	53494-7																
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						_		1	1	1	1	<u> </u>	1	1	1	1	
Aluminum	7429-90			10000	-	-		17,800	8,620	18,400	15,200	15,400	17,100	26,000	18,300	14,100	19,100
Antimony	7440-36			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		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		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 Cadmium	7440-41 7440-43		47 7.50	10 4	7.2 2.5	14 2.5	72 4.3	0.632 0.0848 J	0.488 0.242 J	0.935 0.337	0.623 0.0829 J	0.776 0.489	0.892 0.182 J	1.28 0.127 J	0.729 0.0448 J	0.595 0.225	0.913 0.136 J
Calcium	7440-73		7.50	10000	2.5	2.5	4.3	216	33,900	3,230	1,340	4,080	729	590	392	1,760	743
Chromium	7440-47		_		30	36	180	19.8	12	22.7	19.4	13.8	14.1	21	16.5	12	16.3
Cobalt	7440-48		-	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		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			-		2000		28,200	17,000	34,900	30,500	15,800	18,900	27,200	22,800	16,300	22,500
Lead	7439-92		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		-			-		5,260	23,400	7,680	5,870	2,850	3,040	4,860	4,170	2,930	4,090
Magnesium	7439-96	-5	2000	1600	1600	2000	2000	624	677	1,080	414	934	674	701	313	468	515
		-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
Manganese	7440-02					-	-	1,720	1,530	2,060	1,660	1,060	913	1,160	891	730	941
Manganese Nickel	7440-02 7440-09	-7				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
Manganese Nickel Potassium Selenium			4	3.9	3.9	30						0.000 1	0.188 J		0.0450.1		0.131 J
Manganese Nickel Potassium Selenium Silver	7440-09 7782-49 7440-22	-2 -4		3.9 2	3.9	36	180	< 0.0271	0.0707 J	0.103 J	0.0387 J	0.326 J	U. 100 J	0.139 J	0.0453 J	0.114 J	
Manganese Nickel Potassium Selenium Silver Sodium	7440-09 7782-49 7440-22 7440-23	-2 -4 -5	4	2				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
Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-09 7782-49 7440-22 7440-23 7440-28	-2 -4 -5 -0	4 8.3	2 5	2	36 	180	42.5 J 0.102 J	68.3 J 0.0783 J	60.2 J 0.134 J	49.9 J 0.0962 J	49.6 J 0.165 J	44.3 J 0.164 J	46.1 J 0.200 J	35.9 J 0.128 J	32.1 J 0.154 J	46.0 J 0.138 J
Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-09 7782-49 7440-22 7440-23 7440-28 7440-62	-2 -4 -5 -0 -2	4 8.3 	2 5 39	2 	36 100	180 	42.5 J 0.102 J 23.8	68.3 J 0.0783 J 30.3	60.2 J 0.134 J 29.7	49.9 J 0.0962 J 20.2	49.6 J 0.165 J 39.5	44.3 J 0.164 J 33.4	46.1 J 0.200 J 33.7	35.9 J 0.128 J 25.2	32.1 J 0.154 J 26.5	46.0 J 0.138 J 24.8
Manganese Nickel Potassium Selenium	7440-09 7782-49 7440-22 7440-23 7440-28	-2 -4 -5 -0 -2 -6	4 8.3 	2 5	2 	36 	180 	42.5 J 0.102 J	68.3 J 0.0783 J	60.2 J 0.134 J	49.9 J 0.0962 J	49.6 J 0.165 J	44.3 J 0.164 J	46.1 J 0.200 J	35.9 J 0.128 J	32.1 J 0.154 J	46.0 J 0.138 J

--: 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	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Name		Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted	1,20	1120				1,120	1,20	1,120		
Volatile Organic Compounds				, s. s <u></u>		- recordonna	11001110104			<u> </u>	·		•	·		·	
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 (Fre		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	-	_				<u>-</u>		< 0.001	< 0.001				
1,2,4-Trichlorobenzene		120-82-1	3.4	20							-	< 0.001	< 0.001				
1,2-Dibromo-3-chloropropane (D		96-12-8		-		_					-	< 0.002	< 0.002				
1,2-Dibromoethane		106-93-4									< 0.001	< 0.001	< 0.001				
1,2-Dichlorobenzene (o-Dichlorol		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	0.02						< 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	0.001 0.005 J	0.001 0.009 J	-			-
2-Hexanone (Methyl ethyl ketone)		78-93-3 591-78-6	0.3	100	0.12	100	100				< 0.005 J < 0.004	< 0.005 J	< 0.009 J				
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				<u>0.1</u>	<u>0.1</u>	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 (Dichlorometh	hane)	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 (Trichloroethylen		79-01-6	0.47	2	0.47	10	21				< 0.001	< 0.001	< 0.001			-	
Trichlorofluoromethane (Freon 1		75-69-4									< 0.003	< 0.002	< 0.002			-	
Vinyl chloride (Chloroethene)	,	75-05-4 75-01-4	0.02		0.02	0.21	0.9				< 0.003	< 0.002	< 0.002				
• ' '			1.60	0.26	0.02	100	100				< 0.001		< 0.001				
Xylene (total)		1330-20-7	1.00	0.20	0.20	100	100	-	-	-	< 0.001	< 0.001	< 0.001	-	-		-



	Location ID Sample Date Field Sample ID Depth Interval				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB26 6/1/2017 OU1EESB26-S-0.50- 0.5-1	OU1EESB26 6/1/2017 OU1EESB26-S-1.00- 1-2	OU1EESB27 5/31/2017 OU1EESB27-S-0.00- 0-0.17	OU1EESB27 5/31/2017 OU1EESB27-S-0.17- 0.17-0.5	OU1EESB27 5/31/2017 OU1EESB27-S-0.50- 0.5-1	OU1EESB27 5/31/2017 OU1EESB27-S-1.00- 1-2	OU1EESB28 5/31/2017 OU1EESB28-S-0.00- 0-0.17	OU1EESB28 5/31/2017 OU1EESB28-S-0.17- 0.17-0.5	OU1EESB28 5/31/2017 OU1EESB28-S-0.50- 0.5-1	OU1EESB28 5/31/2017 OU1EESB28-S-1.00- 1-2
Parameter Nam	Sample Purpose Para	ameter ode	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Semivolatile Organic Compoun		oue	CF-51 FOG	OF-STEEK	Objectives	Residential	Restricted			<u> </u>							
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		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 2,4,5-Trichlorophenol	58-90-2 95-95-4		0.1	4	-	100		< 0.096 < 0.024	< 0.087 < 0.022	< 0.09 < 0.023	< 0.085 < 0.021	< 0.079 < 0.02	< 0.087 < 0.022	< 0.1 < 0.025	< 0.08 < 0.02	< 0.079 < 0.02	< 0.076 < 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		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 2,6-Dinitrotoluene	121-14			-	-		-	< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
2,6-Dinitrotoluene 2-Chloronaphthalene	606-20 91-58-7		0.17			1.03		< 0.024 < 0.01	< 0.022 < 0.009	< 0.023 < 0.009	< 0.021 < 0.009	< 0.02 < 0.008	< 0.022 < 0.009	< 0.025 < 0.01	< 0.02 < 0.008	< 0.02 < 0.008	< 0.019 < 0.008
2-Chlorophenol (o-Chlorophenol)			-	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	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	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) 3,3'-Dichlorobenzidine	88-75-5 91-94-1		0.3	7	-	-		< 0.024 < 0.14	< 0.022	< 0.023	< 0.021 < 0.13	< 0.02	< 0.022	< 0.025 < 0.15	< 0.02	< 0.02	< 0.019
3,3 -Dichlorobenzidine 3-Nitroaniline	99-09-2		0.5	-				< 0.14 < 0.096	< 0.13 < 0.087	< 0.14 < 0.09	< 0.13 < 0.085	< 0.12 < 0.079	< 0.13 < 0.087	< 0.15	< 0.12 < 0.08	< 0.12 < 0.079	< 0.11 < 0.076
4,6-Dinitro-2-methylphenol (4,6-E				-	-	_	-	< 0.24	< 0.22	< 0.23	< 0.21	< 0.2	< 0.22	< 0.25	< 0.2	< 0.2	< 0.19
4-Bromophenylphenylether	101-55		-		-	-		< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
4-Chloroaniline	106-47		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	7005-7			-				< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
4-Methylphenol (p-Cresol) 4-Nitroaniline	106-44 100-01		0.33		0.33	34	100	< 0.024 < 0.096	< 0.022 < 0.087	< 0.023 < 0.09	< 0.021 < 0.085	< 0.02 < 0.079	< 0.022 < 0.087	< 0.025 < 0.1	< 0.02 < 0.08	< 0.02 < 0.079	< 0.019 < 0.076
4-Nitrophenol	100-02		0.1	7				< 0.096	< 0.22	< 0.23	< 0.065	< 0.079	< 0.007	< 0.15	< 0.2	< 0.079	< 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		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 Benzaldehyde	1912-2 100-52		-		-			< 0.048 0.11 J	< 0.043 < 0.087	< 0.045 < 0.09	< 0.043 < 0.085	< 0.039 < 0.079	< 0.044 < 0.087	< 0.05 0.19 J	< 0.04 < 0.08	< 0.039 < 0.079	< 0.038 < 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		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		1.7		0.8	1 -	3.9	0.02 J < 0.024	< 0.004	0.018 J	0.005 J	< 0.004	< 0.004	0.035	0.014 J	< 0.004	< 0.004 < 0.019
ois(2-Chloroethoxy)methane ois(2-Chloroethyl) ether	111-91 111-44			-	-			< 0.024	< 0.022 < 0.022	< 0.023 < 0.023	< 0.021 < 0.021	< 0.02 < 0.02	< 0.022 < 0.022	< 0.025 < 0.025	< 0.02 < 0.02	< 0.02 < 0.02	< 0.019
ois(2-chloroisopropyl) ether	108-60					-		< 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		435	239		50		< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
Butylbenzylphthalate	85-68-7		122			100		< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
Caprolactam	105-60		-	-		-	-	< 0.048	< 0.043	< 0.045	< 0.043	< 0.039	< 0.044	< 0.05	< 0.04	< 0.039	< 0.038
Carbazole Chrysene	86-74-8		1	-		1	3.9	< 0.024 0.047	< 0.022	< 0.023	< 0.021 0.008 J	< 0.02	< 0.022 0.008 J	< 0.025 0.065	< 0.02	< 0.02	< 0.019 < 0.004
Onrysene Di-n-butylphthalate	218-01 84-74-2		8.1	0.01	1	100	3.9	< 0.047	< 0.004 < 0.087	0.033	0.008 J < 0.085	0.006 J < 0.079	0.008 J < 0.087	0.065 < 0.1	0.032 < 0.08	< 0.004 < 0.079	< 0.004 < 0.076
Di-n-octylphthalate	117-84		120		-	100	-	< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
Dibenz(a,h)anthracene	53-70-3	3	1000	-	0.33	0.33	0.33	0.011 J	< 0.004	0.006 J	< 0.004	< 0.004	< 0.004	0.009 J	0.005 J	< 0.004	< 0.004
Dibenzofuran	132-64		6.20	-	7	14	59	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
Diethylphthalate	84-66-2		7.1	100		100		< 0.096	< 0.087	< 0.09	< 0.085	< 0.079	< 0.087	< 0.1	< 0.08	< 0.079	< 0.076
Dimethyl phthalate Diphenyl (Biphenyl, Phenyl benzo	131-11 ene) 92-52-4		27	200 60		100		< 0.096 < 0.024	< 0.087 < 0.022	< 0.09 < 0.023	< 0.085 < 0.021	< 0.079 < 0.02	< 0.087 < 0.022	< 0.1 < 0.025	< 0.08 < 0.02	< 0.079 < 0.02	< 0.076 < 0.019
Fluoranthene	206-44		1000		100	100	100	0.024	< 0.022	0.058	0.012 J	0.01 J	0.022 0.013 J	0.11	0.046	< 0.02	< 0.004
Fluorene	86-73-7		386	30	30	100	100	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004
Hexachlorobenzene	118-74		1.4	-	0.33	0.33	1.2	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004
lexachlorobutadiene	87-68-3		-		-	-		< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
lexachlorocyclopentadiene	77-47-4		-	10	-	-		< 0.24	< 0.22	< 0.23	< 0.21	< 0.2	< 0.22	< 0.25	< 0.2	< 0.2	< 0.19
lexachloroethane ndeno(1,2,3-cd)Pyrene	67-72-1 193-39		8.2		0.5	0.5	0.5	< 0.048 0.026	< 0.043 < 0.004	< 0.045 0.02 J	< 0.043 0.005 J	< 0.039 < 0.004	< 0.044 0.006 J	< 0.05 0.037	< 0.04 0.017 J	< 0.039 < 0.004	< 0.038 < 0.004
sophorone	78-59-1		4.4	-		100		< 0.026	< 0.004	< 0.023	< 0.021	< 0.04	< 0.022	< 0.037	< 0.02	< 0.02	< 0.004
N-Nitrosodi-n-propylamine	621-64		-	-		-		< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
N-Nitrosodiphenylamine (Diphen			-	20		-	-	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
Naphthalene	91-20-3		12		12	100	100	0.008 J	0.038	0.006 J	< 0.004	< 0.004	< 0.004	0.009 J	0.005 J	< 0.004	< 0.004
Nitrobenzene	98-95-3		0.17	40		3.7	15	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	< 0.025	< 0.02	< 0.02	< 0.019
o-Chloro-m-cresol Pentachlorophenol	59-50-7 87-86-5		0.8	0.8	0.8	2.4	6.7	< 0.024 < 0.048	< 0.022 < 0.043	< 0.023 < 0.045	< 0.021 < 0.043	< 0.02 < 0.039	< 0.022 < 0.044	< 0.025 < 0.05	< 0.02 < 0.04	< 0.02 < 0.039	< 0.019 < 0.038
Phenanthrene	87-86-3 85-01-8		1000	0.8	100	100	100	< 0.048 0.038	< 0.043	< 0.045 0.034	< 0.043 0.006 J	0.039 0.005 J	< 0.044 0.008 J	0.06	< 0.04 0.031	< 0.039	< 0.038
Phenol	108-95		0.33	30	0.33	100	100	< 0.024	< 0.022	< 0.023	< 0.021	< 0.02	< 0.022	0.027 J	< 0.02	< 0.02	< 0.019
Pyrene	129-00		1000	-	100	100	100	0.072	0.006 J	0.053	0.012 J	0.01 J	0.013 J	0.097	0.045	< 0.004	0.005 J



Fie D	Location ID Sample Date eld Sample ID Depth Interval mple Purpose 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 DIELDRIN	319-86-8 60-57-1	0.25	0.04	0.04	100	100										
Endosulfan I	959-98-8	0.1	0.006	0.005	0.039 4.8	0.2 24										
Endosulfan II	33213-65-9	102		2.4		24										
ENDOSULFAN SULFATE	1031-07-8	102 1000		2.4	4.8 4.8	24										
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11				-			-			
ENDRIN ALDEHYDE	7421-93-4			0.014						-						
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							21,100	,								
,y	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
•	7440-36-0 7440-38-2			 13	 16	 16			0.34 J 8.41		< 0.104 4.93	0.113 J 5.5	0.28 J 7.59	0.17 J 6.63		0.103 J 6.63
Arsenic Barium		-	12 13 433			16 400	0.156 J 6.02 67.2	< 0.107		0.146 J 5.68 55.5		5.5 45			< 0.0944 5.39 50.7	6.63 49.2
Arsenic Barium Beryllium	7440-38-2 7440-39-3 7440-41-7	 16 820 47	12 13 433 10	13 350 7.2	16 350 14	16 400 72	0.156 J 6.02 67.2 0.946	< 0.107 5.15 56.7 0.786	8.41 61.6 1.02	0.146 J 5.68 55.5 0.99	4.93 62.8 0.721	5.5 45 0.733	7.59 80.7 1.12	6.63 59.4 0.923	< 0.0944 5.39 50.7 0.815	6.63 49.2 0.697
Arsenic Barium Beryllium Cadmium	7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820 47 7.50	12 13 433 10 4	13 350 7.2 2.5	16 350	16 400 72 4.3	0.156 J 6.02 67.2 0.946 0.112 J	< 0.107 5.15 56.7 0.786 < 0.0422	8.41 61.6 1.02 0.18 J	0.146 J 5.68 55.5 0.99 0.0767 J	4.93 62.8 0.721 0.0788 J	5.5 45 0.733 0.0635 J	7.59 80.7 1.12 0.23	6.63 59.4 0.923 0.136 J	< 0.0944 5.39 50.7 0.815 0.0619 J	6.63 49.2 0.697 0.0773 J
Arsenic Barium Beryllium Cadmium Calcium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50	12 13 433 10 4 10000	13 350 7.2 2.5	16 350 14 2.5	16 400 72 4.3	0.156 J 6.02 67.2 0.946 0.112 J 763	< 0.107 5.15 56.7 0.786 < 0.0422 469	8.41 61.6 1.02 0.18 J 531	0.146 J 5.68 55.5 0.99 0.0767 J 316	4.93 62.8 0.721 0.0788 J 613	5.5 45 0.733 0.0635 J 414	7.59 80.7 1.12 0.23 1,070	6.63 59.4 0.923 0.136 J 533	< 0.0944 5.39 50.7 0.815 0.0619 J 292	6.63 49.2 0.697 0.0773 J 195
Arsenic Barium Beryllium Cadmium Calcium Chromium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50 	12 13 433 10 4 10000	13 350 7.2 2.5 30	16 350 14 2.5 36	16 400 72 4.3 180	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1	8.41 61.6 1.02 0.18 J 531 17.9	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1	4.93 62.8 0.721 0.0788 J 613 14.1	5.5 45 0.733 0.0635 J 414 15.5	7.59 80.7 1.12 0.23 1,070 21.6	6.63 59.4 0.923 0.136 J 533 15.7	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4	6.63 49.2 0.697 0.0773 J 195 18.3
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	 16 820 47 7.50 	12 13 433 10 4 10000 20	13 350 7.2 2.5 30	16 350 14 2.5 36 30	16 400 72 4.3 180	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78	8.41 61.6 1.02 0.18 J 531 17.9 8.81	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81	4.93 62.8 0.721 0.0788 J 613 14.1 6.82	5.5 45 0.733 0.0635 J 414 15.5 8.83	7.59 80.7 1.12 0.23 1,070 21.6 14.7	6.63 59.4 0.923 0.136 J 533 15.7 8.27	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9	6.63 49.2 0.697 0.0773 J 195 18.3
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270	16 400 72 4.3 180 270	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9	8.41 61.6 1.02 0.18 J 531 17.9 8.81	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5	6.63 59.4 0.923 0.136 J 533 15.7 8.27	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000	16 400 72 4.3 180 270	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270	16 400 72 4.3 180 270 400	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5	 16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	16 400 72 4.3 180 270 400 2000	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400 2000 310	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305 18.6	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561 18.5	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340 398	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568 18.5	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585 19.9	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582 22.3	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562 26.4
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-96-5 7440-02-0 7440-09-7	 16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544 20.2 1,260	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305 18.6 1,120	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561 18.5	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340 398 15.4	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568 18.5	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585 19.9 1,040	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582 22.3 1,080	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562 26.4 1,180
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2	 16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310 180	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544 20.2 1,260 0.356 J	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305 18.6 1,120 0.282 J	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561 18.5 946 0.444 J	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340 398 15.4 809	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568 18.5 890 0.286 J	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585 19.9 1,040 0.522 J	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582 22.3 1,080 0.26 J	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562 26.4 1,180 0.177 J
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	 16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544 20.2 1,260 0.356 J 0.140 J	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305 18.6 1,120 0.282 J 0.0673 J	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561 18.5 946 0.444 J 0.166 J	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340 398 15.4 809 0.282 J 0.109 J	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568 18.5 890 0.286 J	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585 19.9 1,040 0.522 J 0.144 J	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582 22.3 1,080 0.26 J 0.0602 J	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562 26.4 1,180 0.177 J 0.0333 J
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544 20.2 1,260 0.356 J 0.140 J 55.6 J	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305 18.6 1,120 0.282 J 0.0673 J 45.3 J	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J 45.3 J	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561 18.5 946 0.444 J 0.166 J 31.4 J	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340 398 15.4 809 0.282 J 0.109 J 35.2 J	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568 18.5 890 0.286 J 0.07 J 34.5 J	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J 35.8 J	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585 19.9 1,040 0.522 J 0.144 J 38.5 J	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582 22.3 1,080 0.26 J 0.0602 J 31.4 J	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562 26.4 1,180 0.177 J 0.0333 J 33.2 J
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-98-6 7439-92-1 7439-95-4 7439-96-5 7440-09-7 7782-49-2 7440-22-4 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544 20.2 1,260 0.356 J 0.140 J 55.6 J 0.190 J	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305 18.6 1,120 0.282 J 0.0673 J 45.3 J 0.152 J	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J 45.3 J 0.182 J	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561 18.5 946 0.444 J 0.166 J 31.4 J 0.151 J	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340 398 15.4 809 0.282 J 0.109 J 35.2 J	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568 18.5 890 0.286 J 0.07 J 34.5 J 0.122 J	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J 35.8 J 0.145 J	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585 19.9 1,040 0.522 J 0.144 J 38.5 J 0.136 J	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582 22.3 1,080 0.26 J 0.0602 J 31.4 J 0.138 J	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562 26.4 1,180 0.177 J 0.0333 J 33.2 J 0.0849 J
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 2000 310 180 180	0.156 J 6.02 67.2 0.946 0.112 J 763 17.6 9 14.1 22,000 15.5 4,160 544 20.2 1,260 0.356 J 0.140 J 55.6 J	< 0.107 5.15 56.7 0.786 < 0.0422 469 17.1 8.78 12.9 21,900 12.3 3,990 305 18.6 1,120 0.282 J 0.0673 J 45.3 J	8.41 61.6 1.02 0.18 J 531 17.9 8.81 17.1 22,800 38.2 4,030 667 21.1 1,100 0.77 J 0.202 J 45.3 J	0.146 J 5.68 55.5 0.99 0.0767 J 316 16.1 7.81 11.9 20,000 15.3 3,690 561 18.5 946 0.444 J 0.166 J 31.4 J	4.93 62.8 0.721 0.0788 J 613 14.1 6.82 16.9 18,400 13.1 3,340 398 15.4 809 0.282 J 0.109 J 35.2 J	5.5 45 0.733 0.0635 J 414 15.5 8.83 13.9 22,700 16.7 3,960 568 18.5 890 0.286 J 0.07 J 34.5 J	7.59 80.7 1.12 0.23 1,070 21.6 14.7 25.5 34,500 59.7 5,770 1,310 30.3 972 0.456 J 0.111 J 35.8 J	6.63 59.4 0.923 0.136 J 533 15.7 8.27 15.8 20,500 24.8 3,740 585 19.9 1,040 0.522 J 0.144 J 38.5 J	< 0.0944 5.39 50.7 0.815 0.0619 J 292 17.4 10.9 17.9 25,300 12.7 4,860 582 22.3 1,080 0.26 J 0.0602 J 31.4 J	6.63 49.2 0.697 0.0773 J 195 18.3 12.5 24.4 29,700 13.7 5,780 562 26.4 1,180 0.177 J 0.0333 J 33.2 J

--: 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



Parameter Name	Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	5/23/2017 OU1EESB29-S-0.50- 0.5-1 REG	5/23/2017 OU1EESB29-S-1.00- 1-2 REG	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
	ne	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
	-	75-35-4	0.00		0.00	400	400										
1,1 Dichloroethene			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 (Fre		76-13-1	6			100				-				-			
1,1-Dichloroethane		75-34-3	0.27		0.27	19	26				-						-
1,2,3-Trichlorobenzene		37-61-6		20		-								-			
1,2,4-Trichlorobenzene		120-82-1	3.4	20		-					-						
1,2-Dibromo-3-chloropropane (D		96-12-8	-	-		-											
1,2-Dibromoethane		106-93-4	-	-	-	-	-		-			-				-	-
1,2-Dichlorobenzene (o-Dichlorol		95-50-1	1.1		1.1	100	100				-						
1,2-Dichloroethane	1	107-06-2	0.02	10	0.02	2.3	3.1										
1,2-Dichloropropane		78-87-5		700		-											
1,3-Dichlorobenzene	5	541-73-1	2.4		2.4	17	49										
1,4-Dichlorobenzene	1	106-46-7	1.8	20	1.8	9.8	13										
2-Butanone (Methyl ethyl ketone)	e) 7	78-93-3	0.3	100	0.12	100	100										
2-Hexanone	5	591-78-6															
4-Methyl-2-pentanone	1	108-10-1	1			-											
Acetone	6	67-64-1	0.05	2.2	0.05	100	100										
Benzene	7	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				-						<u></u>					<u></u>
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			0.37		49							-			
cis-1,2-Dichloroethene		156-59-2	0.25			59	100							-			
cis-1,3-Dichloropropene		10061-01-5		-	0.25												
			-	-	-	-				-	-		-	-			-
Cyclohexane		110-82-7	-			-				-	-			-			
Dibromochloromethane		124-48-1	-	10		-					-						
Dichlorodifluoromethane (Freon		75-71-8				-											
Diisopropyl ether		108-20-3		-		-	-										
Ethyl-t-butylether		37-92-3		-		-											
Ethylbenzene		100-41-4	1	-	1	30	41										
Isopropylbenzene		98-82-8	2.3	-		100	-										
m,p-Xylenes		KYLENES-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 (Dichlorometh		75-09-2	0.05	12	0.05	51	100										
o-Xylene	9	95-47-6															
Styrene	1	100-42-5		300													
tert-Amyl methyl ether	9	994-05-8	-			-											
Tertiary Butyl Alcohol	7	75-65-0															
Tetrachloroethene	1	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 (Trichloroethylen		79-01-6	0.47	2	0.47	10	21										
Trichlorofluoromethane (Freon 1		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 eld Sample ID Depth Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB29 5/23/2017 OU1EESB29-S-0.50- 0.5-1	OU1EESB29 5/23/2017 OU1EESB29-S-1.00- 1-2	OU1EESB30 5/23/2017 OU1EESB30-S-0.17- 0.17-0.5	OU1EESB30 5/23/2017 OU1EESB30-S-1.00- 1-2	OU1EESB31 5/23/2017 OU1EESB31-S-0.17- 0.17-0.5	OU1EESB31 5/23/2017 OU1EESB31-S-0.50- 0.5-1	OU1EESB32 5/23/2017 OU1EESB32-S-0.17- 0.17-0.5	OU1EESB32 5/23/2017 OU1EESB32-S-0.50- 0.5-1	OU1EESB32 5/23/2017 OU1EESB32-S-1.00- 1-2	OU1EESB33 5/24/2017 OU1EESB33-S-0.50- 0.5-1
Sa	mple Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name emivolatile Organic Compounds	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
,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
,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 95-95-4	0.1	4		100	-	< 0.080 < 0.02	< 0.085 < 0.021	< 0.10 < 0.025	< 0.077 < 0.019	< 0.091 < 0.023	< 0.079 < 0.02	< 0.087 < 0.022	< 0.078 < 0.02	< 0.077 < 0.019	< 0.096 < 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
4. Dinitrophenol	51-28-5 121-14-2	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	606-20-2	0.17	-	-	1.03	-	< 0.08 < 0.02	< 0.085 < 0.021	< 0.1 < 0.025	< 0.077 < 0.019	< 0.091 < 0.023	< 0.079 < 0.02	< 0.087 < 0.022	< 0.078 < 0.02	< 0.077 < 0.019	< 0.096 < 0.024
:-Chloronaphthalene	91-58-7	-			-		< 0.008	< 0.009	< 0.01	< 0.008	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008	< 0.01
-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
-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
P-Methylphenol (o-Cresol) P-Nitroaniline (o-Nitroaniline)	95-48-7 88-74-4	0.33		0.33	100	100	< 0.02 < 0.02	< 0.021 < 0.021	< 0.025 < 0.025	< 0.019 < 0.019	< 0.023 < 0.023	< 0.02 < 0.02	< 0.022 < 0.022	< 0.02 < 0.02	< 0.019 < 0.019	< 0.024 < 0.024
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.4	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
1,6-Dinitro-2-methylphenol (4,6-Dini	ro-o-cresol) 534-52-1 101-55-3				-	-	< 0.2	< 0.21	< 0.25	< 0.19	< 0.23	< 0.2	< 0.22	< 0.2	< 0.19	< 0.24
4-Bromophenylphenylether 4-Chloroaniline	106-47-8	0.22	-	-	100	-	< 0.02 < 0.04	< 0.021 < 0.043	< 0.025 < 0.05	< 0.019 < 0.038	< 0.023 < 0.045	< 0.02 < 0.039	< 0.022 < 0.043	< 0.02 < 0.039	< 0.019 < 0.039	< 0.024 < 0.048
1-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
1-Nitrophenol Acenaphthene	100-02-7 83-32-9	0.1 98	7 20	20	100	100	< 0.2 < 0.004	< 0.21 < 0.004	< 0.25 < 0.005	< 0.19 < 0.004	< 0.23 < 0.005	< 0.2 < 0.004	< 0.22 < 0.004	< 0.2 < 0.004	< 0.19 < 0.004	< 0.24 < 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	1912-24-9 100-52-7	-			-		< 0.040	< 0.043	< 0.050	< 0.038	< 0.045	< 0.039	< 0.043	< 0.039	< 0.039	< 0.048
Benzaldehyde Benzo(a)anthracene	56-55-3	1		1	1	1	< 0.080 0.008 J	< 0.085 < 0.004	< 0.10 0.012 J	< 0.077 < 0.004	0.11 J 0.015 J	< 0.079 0.004 J	0.097 J 0.025	< 0.078 < 0.004	< 0.077 < 0.004	0.15 J 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 pis(2-Chloroethoxy)methane	207-08-9 111-91-1	1.7		0.8	1	3.9	0.006 J < 0.02	< 0.004 < 0.021	0.012 J < 0.025	< 0.004 < 0.019	0.013 J < 0.023	< 0.004 < 0.02	0.019 J < 0.022	< 0.004 < 0.02	< 0.004 < 0.019	0.016 J < 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
ois(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
pis(2-Ethylhexyl)phthalate	117-81-7	435	239	-	50	-	< 0.08	< 0.085	< 0.1	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
Butylbenzylphthalate Caprolactam	85-68-7 105-60-2	122	-	-	100	-	< 0.08	< 0.085 0.12 J	< 0.1	< 0.077 < 0.038	< 0.091	< 0.079 0.048 J	< 0.087 < 0.043	< 0.078	< 0.077 < 0.039	< 0.096 < 0.048
Carbazole	86-74-8				-	-	0.23	< 0.021	0.23 J < 0.025	< 0.036	< 0.045 < 0.023	< 0.02	< 0.043	< 0.039 < 0.02	< 0.019	< 0.046
Chrysene	218-01-9	1		1	1	3.9	0.009 J	< 0.004	0.02 J	< 0.004	0.028	0.006 J	0.041	0.005 J	< 0.004	0.033
Di-n-butylphthalate	84-74-2	8.1	0.01		100		< 0.08	< 0.085	< 0.1	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
Di-n-octylphthalate Dibenz(a,h)anthracene	117-84-0	120	-		100		< 0.08	< 0.085	< 0.1	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
Dibenz(a,n)anthracene Dibenzofuran	53-70-3 132-64-9	1000 6.20	-	0.33	0.33 14	0.33 59	< 0.004 < 0.02	< 0.004 < 0.021	< 0.005 < 0.025	< 0.004 < 0.019	< 0.005 < 0.023	< 0.004 < 0.02	0.006 J < 0.022	< 0.004 < 0.02	< 0.004 < 0.019	< 0.005 < 0.024
Diethylphthalate	84-66-2	7.1	100	-	100		< 0.08	< 0.085	< 0.1	< 0.077	< 0.025	< 0.079	< 0.022	< 0.078	< 0.077	< 0.096
Dimethyl phthalate	131-11-3	27	200	-	100	-	< 0.08	< 0.085	< 0.1	< 0.077	< 0.091	< 0.079	< 0.087	< 0.078	< 0.077	< 0.096
Diphenyl (Biphenyl, Phenyl benzene			60		-	-	< 0.020	< 0.021	< 0.025	< 0.019	< 0.023	< 0.020	< 0.022	< 0.020	< 0.019	< 0.024
Fluoranthene Fluorene	206-44-0 86-73-7	1000 386	30	100 30	100 100	100 100	0.013 J	0.004 J	0.028	< 0.004 < 0.004	0.041	0.009 J	0.054	0.006 J	< 0.004	0.055 < 0.005
Hexachlorobenzene	118-74-1	1.4		0.33	0.33	1.2	< 0.004 < 0.004	< 0.004 < 0.004	< 0.005 < 0.005	< 0.004 < 0.004	< 0.005 < 0.005	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	< 0.005 < 0.005
lexachlorobutadiene	87-68-3		-		-		< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
lexachlorocyclopentadiene	77-47-4	-	10	-	-	-	< 0.2	< 0.21	< 0.25	< 0.19	< 0.23	< 0.2	< 0.22	< 0.2	< 0.19	< 0.24
lexachloroethane	67-72-1		-				< 0.04	< 0.043	< 0.05	< 0.038	< 0.045	< 0.039	< 0.043	< 0.039	< 0.039	< 0.048
ndeno(1,2,3-cd)Pyrene sophorone	193-39-5 78-59-1	8.2 4.4		0.5	0.5 100	0.5	0.007 J < 0.02	< 0.004 < 0.021	0.009 J < 0.025	< 0.004 < 0.019	0.013 J < 0.023	< 0.004 < 0.02	0.019 J < 0.022	< 0.004 < 0.02	< 0.004 < 0.019	0.022 J < 0.024
I-Nitrosodi-n-propylamine	621-64-7			-		-	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
I-Nitrosodiphenylamine (Diphenyla			20		-		< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
laphthalene	91-20-3	12	-	12	100	100	< 0.004	0.009 J	< 0.005	0.026	0.014 J	0.006 J	0.01 J	< 0.004	< 0.004	0.013 J
litrobenzene	98-95-3	0.17	40	-	3.7	15	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
Pentachlorophenol	59-50-7 87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.02 < 0.04	< 0.021 < 0.043	< 0.025 < 0.05	< 0.019 < 0.038	< 0.023 < 0.045	< 0.02 < 0.039	< 0.022 < 0.043	< 0.02 < 0.039	< 0.019 < 0.039	< 0.024 < 0.048
Phenanthrene	85-01-8	1000		100	100	100	0.04 0.01 J	< 0.043	0.015 J	< 0.038	0.045	0.005 J	0.043	0.005 J	< 0.039	0.038
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.02	< 0.021	< 0.025	< 0.019	< 0.023	< 0.02	< 0.022	< 0.02	< 0.019	< 0.024
yrene	129-00-0	1000	-	100	100	100	0.015 J	< 0.004	0.027	< 0.004	0.038	0.009 J	0.066	0.008 J	< 0.004	0.056



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nan	me	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
Polychlorinated Biphenyls	1.2	074.44.5												0.0010	0.0040	0.0010	
Aroclor 1016		2674-11-2	-	-		-					-			< 0.0046	< 0.0042	< 0.0042	
Aroclor 1221		1104-28-2	-	-		-					-			< 0.0059	< 0.0054	< 0.0053	
Aroclor 1232		1141-16-5	-	-		-					-			< 0.01	< 0.0094	< 0.0093	
Aroclor 1242		3469-21-9	-	-		-	-							< 0.0043	< 0.0039	< 0.0038	
Aroclor 1248		2672-29-6	-			-	-							< 0.0043	< 0.0039	< 0.0038	
Aroclor 1254		1097-69-1 1096-82-5	-	-		-	-							< 0.0043	< 0.0039	< 0.0038	
Aroclor 1260 Aroclor 1262		7324-23-5					-							< 0.0063 < 0.0043	< 0.0057	< 0.0057 < 0.0038	
Aroclor 1268		1100-14-4	-											< 0.0043	< 0.0039 < 0.0039	< 0.0038	
Pesticides	,,,	1100-14-4												< 0.0043	< 0.0039	₹ 0.0036	
4,4-DDD	72	2-54-8	14	0.0033	0.0033	2.6	13							< 0.00043	< 0.00039	< 0.00038	
4,4-DDE		2-55-9	17	0.0033	0.0033	1.8	8.9							0.0018 J	< 0.00039	0.00044 J	
4,4-DDT)-29-3	136	0.0033	0.0033	1.7	7.9							< 0.0018 3	< 0.00039	< 0.00044 3	
Aldrin)9-00-2	0.19	0.0033	0.0033	0.019	0.097							< 0.00045	< 0.00041	< 0.00041	
alpha BHC		19-84-6	0.19	0.14	0.005	0.019	0.097							< 0.00022	< 0.0002	< 0.0002	
alpha Chlordane		19-64-6	2.9	1.30	0.02	0.097	4.2							< 0.00022	< 0.0002	< 0.0002	
beta BHC		19-85-7	0.09	0.6	0.036	0.91	0.36							< 0.00022	< 0.0002	< 0.0002	
delta BHC		19-86-8	0.09	0.04	0.036	100	100							< 0.00058	< 0.00053	< 0.00052	
DIELDRIN)-57-1	0.25	0.04	0.005	0.039	0.2							< 0.00038	< 0.00039	< 0.00032	
Endosulfan I		59-98-8	102	0.006	2.4	4.8	24							< 0.00043	< 0.00039	< 0.00036	
Endosulfan II		3213-65-9	102		2.4	4.8	24					-		< 0.00023	< 0.00039	< 0.00028	
ENDOSULFAN SULFATE		31-07-8	1000		2.4	4.8	24							< 0.00043	< 0.00039	< 0.00038	
ENDRIN		2-20-8	0.06	0.01	0.014	2.2	11							< 0.00043	< 0.00039	< 0.00038	
ENDRIN ALDEHYDE		121-93-4												< 0.00043	< 0.00039	< 0.00038	
ENDRIN KETONE		3494-70-5				_								< 0.00078	< 0.00033	< 0.0007	
gamma BHC (Lindane)		3-89-9	0.1	6	0.1	0.28	1.3							< 0.00076	< 0.0007	< 0.0007	
gamma Chlordane		103-74-2	14			0.54								< 0.00022	< 0.0002	< 0.0002	
HEPTACHLOR		6-44-8	0.38	0.14	0.042	0.42	2.1							< 0.00022	< 0.0002	< 0.0002	
HEPTACHLOR EPOXIDE		24-57-3	0.02			0.077								< 0.00022	< 0.0002	< 0.0002	
METHOXYCHLOR		2-43-5	900	1.2		100								< 0.0022	< 0.002	< 0.002	
TOXAPHENE		01-35-2												< 0.018	< 0.016	< 0.016	
Metals														V 0.010	V 0.010	V 0.010	
Aluminum	74	129-90-5		10000				16,500	18,500	12,300	17,700	20,700	19,700	19,500	19,200	20,800	15,600
Antimony		140-36-0		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		140-38-2	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		140-39-3	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		140-41-7	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		140-43-9	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	74	140-70-2		10000		-		199	220	510	396	633	387	401	263	314	654
Calcium				-	30	36	180	17.5	16	12.7	20.6	20.5	21.7	20.9	22.1	24.1	16.2
Chromium		140-47-3				30		12	9.61	7.77	12.9	11.6	13.3	11.9	11.8	14	6.95
	74	140-47-3 140-48-4		20									19.3	18.3	28.7	30.5	13.6
Chromium	74 74		 1720	20 50	50	270	270	19.5	14.4	14	25.3	18	10.0	10.5			
Chromium Cobalt	74 74 74	140-48-4						19.5 27,000	14.4 21,800	14 17,500	25.3 31,000	18 25,800	30,200	25,900	33,300	32,700	17,800
Chromium Cobalt Copper Iron	74 74 74 74	140-48-4 140-50-8	1720	50	50	270	270									32,700 22.2	17,800 28.9
Chromium Cobalt Copper	74 74 74 74 74	140-48-4 140-50-8 139-89-6	1720 	50 	50 	270 2000	270	27,000	21,800	17,500	31,000	25,800	30,200	25,900	33,300		
Chromium Cobalt Copper Iron Lead	74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1	1720 450	50 63	50 63	270 2000	270 400	27,000 16.1	21,800 17.2	17,500 15	31,000 13.9	25,800 22.3	30,200 16.2	25,900 49.9	33,300 16.3	22.2	28.9
Chromium Cobalt Copper Iron Lead Magnesium	74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4	1720 450 	50 63 	50 63 	270 2000 400 	270 400 	27,000 16.1 4,910	21,800 17.2 4,050	17,500 15 3,170	31,000 13.9 5,960	25,800 22.3 4,860	30,200 16.2 6,060	25,900 49.9 5,300	33,300 16.3 6,060	22.2 6,050	28.9 3,320
Chromium Cobalt Copper Iron Lead Magnesium Manganese	74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5	1720 450 2000	50 63 1600	50 63 1600	270 2000 400 2000	270 400 2000	27,000 16.1 4,910 756	21,800 17.2 4,050 1,110	17,500 15 3,170 567	31,000 13.9 5,960 620	25,800 22.3 4,860 880	30,200 16.2 6,060 707	25,900 49.9 5,300 752	33,300 16.3 6,060 467	22.2 6,050 654	28.9 3,320 406
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	74 74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0	1720 450 2000 130	50 63 1600 30	50 63 1600 30	270 2000 400 2000 140	270 400 2000 310	27,000 16.1 4,910 756 21.2	21,800 17.2 4,050 1,110 18.8	17,500 15 3,170 567 15.3	31,000 13.9 5,960 620 24.2	25,800 22.3 4,860 880 21.7	30,200 16.2 6,060 707 24.7	25,900 49.9 5,300 752 22.2	33,300 16.3 6,060 467 27.1	22.2 6,050 654 27.5	28.9 3,320 406 16
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	74 74 74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7	1720 450 2000 130	50 63 1600 30	50 63 1600 30 	270 2000 400 2000 140	270 400 2000 310	27,000 16.1 4,910 756 21.2 1,120	21,800 17.2 4,050 1,110 18.8 1,010	17,500 15 3,170 567 15.3 1,090	31,000 13.9 5,960 620 24.2 1,550	25,800 22.3 4,860 880 21.7 1,270	30,200 16.2 6,060 707 24.7 1,890	25,900 49.9 5,300 752 22.2 1,630	33,300 16.3 6,060 467 27.1 1,740	22.2 6,050 654 27.5 2,490	28.9 3,320 406 16 1,170
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	74 74 74 74 74 74 74 74 74 77	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2	1720 450 2000 130 4	50 63 1600 30 3.9	50 63 1600 30 3.9	270 2000 400 2000 140 36	270 400 2000 310 180	27,000 16.1 4,910 756 21.2 1,120 0.248 J	21,800 17.2 4,050 1,110 18.8 1,010 0.247 J	17,500 15 3,170 567 15.3 1,090 0.294 J	31,000 13.9 5,960 620 24.2 1,550 0.189 J	25,800 22.3 4,860 880 21.7 1,270 0.453 J	30,200 16.2 6,060 707 24.7 1,890 0.356 J	25,900 49.9 5,300 752 22.2 1,630 0.474 J	33,300 16.3 6,060 467 27.1 1,740 0.308 J	22.2 6,050 654 27.5 2,490 0.297 J	28.9 3,320 406 16 1,170 0.411 J
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	74 74 74 74 74 74 74 74 77 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2 140-22-4	1720 450 2000 130 4 8.3	50 63 1600 30 3.9	50 63 1600 30 3.9	270 2000 400 2000 140 36	270 400 2000 310 180	27,000 16.1 4,910 756 21.2 1,120 0.248 J 0.0403 J	21,800 17.2 4,050 1,110 18.8 1,010 0,247 J 0,111 J	17,500 15 3,170 567 15.3 1,090 0.294 J 0.0381 J	31,000 13.9 5,960 620 24.2 1,550 0.189 J < 0.0224	25,800 22.3 4,860 880 21.7 1,270 0,453 J 0,0793 J	30,200 16.2 6,060 707 24.7 1,890 0.356 J 0.0329 J	25,900 49.9 5,300 752 22.2 1,630 0,474 J 0.0577 J	33,300 16.3 6,060 467 27.1 1,740 0,308 J < 0.0220	22.2 6,050 654 27.5 2,490 0.297 J 0.0241 J	28.9 3,320 406 16 1,170 0.411 J 0.0874 J
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	74 74 74 74 74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2 140-22-4 140-23-5	1720 450 2000 130 4 8.3	50 63 1600 30 3.9 2	50 63 1600 30 3.9 2	270 2000 400 2000 140 36 36	270 400 2000 310 180 180	27,000 16.1 4,910 756 21.2 1,120 0.248 J 0.0403 J 33.5 J	21,800 17.2 4,050 1,110 18.8 1,010 0,247 J 0,111 J 28.5 J	17,500 15 3,170 567 15.3 1,090 0.294 J 0.0381 J 39.7 J	31,000 13.9 5,960 620 24.2 1,550 0.189 J < 0.0224 40.3 J	25,800 22.3 4,860 880 21.7 1,270 0.453 J 0.0793 J 46.4 J	30,200 16.2 6,060 707 24.7 1,890 0.356 J 0.0329 J 55.1 J	25,900 49.9 5,300 752 22.2 1,630 0.474 J 0.0577 J 55.4 J	33,300 16.3 6,060 467 27.1 1,740 0.308 J < 0.0220 49.1 J	22.2 6,050 654 27.5 2,490 0.297 J 0.0241 J 61.6 J	28.9 3,320 406 16 1,170 0.411 J 0.0874 J 42.5 J
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	74 74 74 74 74 74 74 74 77 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 182-49-2 140-22-4 140-23-5 140-28-0	1720 450 2000 130 4 8.3 	50 63 1600 30 3.9 2 5	50 63 1600 30 3.9 2	270 2000 400 2000 140 36 36 	270 400 2000 310 180 180	27,000 16.1 4,910 756 21.2 1,120 0.248 J 0.0403 J 33.5 J 0.0912 J	21,800 17.2 4,050 1,110 18.8 1,010 0.247 J 0.111 J 28.5 J 0.140 J	17,500 15 3,170 567 15.3 1,090 0.294 J 0,0381 J 39.7 J 0,109 J	31,000 13.9 5,960 620 24.2 1,550 0.189 J < 0.0224 40.3 J 0.104 J	25,800 22.3 4,860 880 21.7 1,270 0.453 J 0.0793 J 46.4 J 0.159 J	30,200 16.2 6,060 707 24.7 1,890 0.356 J 0.0329 J 55.1 J 0.133 J	25,900 49.9 5,300 752 22.2 1,630 0.474 J 0.0577 J 55.4 J 0.197 J	33,300 16.3 6,060 467 27.1 1,740 0.308 J < 0.0220 49.1 J 0.111 J	22.2 6,050 654 27.5 2,490 0.297 J 0.0241 J 61.6 J 0.139 J	28.9 3,320 406 16 1,170 0.411 J 0.0874 J 42.5 J 0.165 J

--: 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



Sam Field Sa	cation ID ple Date ample ID Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB33 5/24/2017 OU1EESB33-S-1.00- 1-2	OU1EESB34 5/24/2017 OU1EESB34-S-0.17- 0.17-0.5	OU1EESB34 5/24/2017 OU1EESB34-S-1.00- 1-2	OU1EESB35 5/24/2017 OU1EESB35-S-0.17- 0.17-0.5	OU1EESB35 5/24/2017 OU1EESB35-S-0.50- 0.5-1	OU1EESB36 5/25/2017 OU1EESB36-S-0.17- 0.17-0.5	OU1EESB36 5/25/2017 OU1EESB36-S-0.50- 0.5-1	OU1EESB36 5/25/2017 OU1EESB36-S-1.00- 1-2	OU1EESB37 5/24/2017 OU1EESB37-S-0.50- 0.5-1	OU1EESB37 5/24/2017 OU1EESB37-S-1.00- 1-2
Sample l		375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
Volatile Organic Compounds	75.05.4							0.004	0.004							
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	< 0.001							
2-Hexanone	78-93-3 591-78-6	0.3	100	0.12	100	100		< 0.006 J	< 0.004							
			-													
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													
Dichlorodifluoromethane (Freon 12)	75-71-8		10	-	-			< 0.001	< 0.001							
		-	-	-	-	-		< 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							
	10061-02-6															
trans-1,3-Dichloropropene		0.47		0.47				< 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			Unrestricted		375-6.8(b) &	OU1EESB33 5/24/2017 OU1EESB33-S-1.00-	OU1EESB34 5/24/2017 OU1EESB34-S-0.17-	OU1EESB34 5/24/2017 OU1EESB34-S-1.00-	OU1EESB35 5/24/2017 OU1EESB35-S-0.17-	OU1EESB35 5/24/2017 OU1EESB35-S-0.50-	OU1EESB36 5/25/2017 OU1EESB36-S-0.17-	OU1EESB36 5/25/2017 OU1EESB36-S-0.50-	OU1EESB36 5/25/2017 OU1EESB36-S-1.00-	OU1EESB37 5/24/2017 OU1EESB37-S-0.50-	OU1EESB37 5/24/2017 OU1EESB37-S-1.00-
	Depth Interval	275 C 0/L\ 8	27F C 0/L\ 0	Use Soil	375-6.8(b) &	CP-51	1-2 REG	0.17-0.5	1-2 REG	0.17-0.5	0.5-1 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.5-1 REG	1-2 REG
Parameter Name	ample Purpose Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	KEG	REG								
mivolatile Organic Compound	S										•					
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
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
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
4,5-Trichlorophenol 4,6-Trichlorophenol	95-95-4 88-06-2	0.1	10	-	100	-	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
4-Dichlorophenol	120-83-2	0.4	20	-	100	-	< 0.021 < 0.021	< 0.021 < 0.021	< 0.019 < 0.019	< 0.022 < 0.022	< 0.02 < 0.02	< 0.021 < 0.021	< 0.019 < 0.019	< 0.02 < 0.02	< 0.019 < 0.019	< 0.019 < 0.019
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
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
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
S-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
Chloronaphthalene	91-58-7	-	-		-	-	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
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
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
Methylphenol (o-Cresol) Nitroaniline (o-Nitroaniline)	95-48-7 88-74-4	0.33		0.33	100	100	< 0.021 < 0.021	< 0.021 < 0.021	< 0.019 < 0.019	< 0.022 < 0.022	< 0.02 < 0.02	< 0.021 < 0.021	< 0.019 < 0.019	< 0.02 < 0.02	< 0.019 < 0.019	< 0.019 < 0.019
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'-Dichlorobenzidine	91-94-1		-	-	_	-	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11
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
6-Dinitro-2-methylphenol (4,6-Di							< 0.21	< 0.21	< 0.19	< 0.22	< 0.2	< 0.21	< 0.19	< 0.2	< 0.19	< 0.19
Bromophenylphenylether	101-55-3				-		< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
-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
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
-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
Nitroaniline Nitrophenol	100-01-6 100-02-7	0.1	7	-	-	-	< 0.083	< 0.082 < 0.21	< 0.077	< 0.086	< 0.079 < 0.2	< 0.082	< 0.078	< 0.079	< 0.077 < 0.19	< 0.076 < 0.19
cenaphthene	83-32-9	98	20	20	100	100	< 0.21 < 0.004	< 0.21	< 0.19 < 0.004	< 0.22 < 0.004	< 0.004	< 0.21 < 0.004	< 0.19 < 0.004	< 0.2 < 0.004	< 0.19	< 0.004
cenaphthylene	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
cetophenone	98-86-2	-	-	-	_	-	< 0.021	< 0.021	< 0.019	< 0.022	< 0.020	< 0.021	< 0.019	< 0.020	< 0.019	< 0.019
nthracene	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
trazine	1912-24-9				-		< 0.041	< 0.041	< 0.039	< 0.043	< 0.040	< 0.041	< 0.039	< 0.039	< 0.038	< 0.038
enzaldehyde	100-52-7				-		< 0.083	0.12 J	< 0.077	< 0.086	< 0.079	< 0.082	< 0.078	< 0.079	< 0.077	< 0.076
enzo(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
enzo(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
enzo(b)fluoranthene enzo(g,h,i)perylene	205-99-2 191-24-2	1.70 1000		100	100	100	< 0.004 < 0.004	0.023 0.011 J	0.01 J 0.004 J	0.014 J 0.006 J	< 0.004 < 0.004	0.021 0.009 J	0.006 J < 0.004	0.009 J 0.007 J	0.004 J < 0.004	< 0.004 < 0.004
enzo(k)fluoranthene	207-08-9	1.7		0.8	1	3.9	< 0.004	0.01 J	< 0.004 3	< 0.004	< 0.004	0.009 J	< 0.004	0.007 J	< 0.004	< 0.004
s(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
is(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
s(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
is(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
utylbenzylphthalate	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
aprolactam	105-60-2				-		< 0.041	< 0.041	< 0.039	< 0.043	< 0.040	< 0.041	< 0.039	< 0.039	< 0.038	< 0.038
arbazole hrysene	86-74-8 218-01-9	1	-	1	1	3.9	< 0.021 < 0.004	< 0.021 0.018 J	< 0.019 0.007 J	< 0.022 0.008 J	< 0.02 < 0.004	< 0.021 0.014 J	< 0.019 0.004 J	< 0.02 0.008 J	< 0.019 0.004 J	< 0.019 < 0.004
i-n-butylphthalate	84-74-2	8.1	0.01	1	100	3.9	< 0.004	< 0.082	< 0.007 3	< 0.086	< 0.004	< 0.014 3	< 0.078	< 0.079	< 0.004 3	< 0.004
i-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
ibenz(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
ibenzofuran	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
iethylphthalate	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
imethyl 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
phenyl (Biphenyl, Phenyl benze	·		60				< 0.021	< 0.021	< 0.019	< 0.022	< 0.020	< 0.021	< 0.019	< 0.020	< 0.019	< 0.019
uoranthene	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
uorene exachlorobenzene	86-73-7 118-74-1	386 1.4	30	30 0.33	100 0.33	100 1.2	< 0.004 < 0.004									
exachlorobutadiene	87-68-3	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
exachlorocyclopentadiene	77-47-4		10				< 0.21	< 0.021	< 0.19	< 0.022	< 0.02	< 0.21	< 0.19	< 0.02	< 0.19	< 0.19
exachloroethane	67-72-1	_	-		_	-	< 0.041	< 0.041	< 0.039	< 0.043	< 0.04	< 0.041	< 0.039	< 0.039	< 0.038	< 0.038
deno(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
phorone	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
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
Nitrosodiphenylamine (Dipheny	· · · · · · · · · · · · · · · · · · ·		20		-		< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
aphthalene	91-20-3	12		12	100	100	< 0.004	0.008 J	< 0.004	0.008 J	< 0.004	0.004 J	< 0.004	< 0.004	< 0.004	< 0.004
trobenzene	98-95-3	0.17	40	-	3.7	15	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
Chloro-m-cresol entachlorophenol	59-50-7 87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.021	< 0.021	< 0.019	< 0.022	< 0.02	< 0.021	< 0.019	< 0.02	< 0.019	< 0.019
entacnioropnenoi nenanthrene	87-86-5 85-01-8	1000	U.8	100	2.4 100	100	< 0.041 < 0.004	< 0.041 0.02 J	< 0.039 0.005 J	< 0.043 0.012 J	< 0.04 < 0.004	< 0.041 0.012 J	< 0.039 < 0.004	< 0.039 0.005 J	< 0.038 < 0.004	< 0.038 < 0.004
henol	108-95-2	0.33	30	0.33	100	100	< 0.004	< 0.021	< 0.019	< 0.012 3	< 0.004	< 0.021	< 0.004	< 0.02	< 0.004	< 0.004
/rene	129-00-0	1000		100	100	100	< 0.021	0.026	0.007 J	0.013 J	< 0.02	0.021 J	0.006 J	0.007 J	0.006 J	< 0.019



	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nan		Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
Polychlorinated Biphenyls																	
Aroclor 1016		2674-11-2				-					< 0.0047	< 0.0042					
Aroclor 1221	11	1104-28-2	-			-					< 0.006	< 0.0054					
Aroclor 1232	11	1141-16-5	-			-					< 0.01	< 0.0094					
Aroclor 1242		3469-21-9				-					< 0.0043	< 0.0039					
Aroclor 1248	12	2672-29-6				-					< 0.0043	< 0.0039					
Aroclor 1254		1097-69-1				-					< 0.0043	< 0.0039					
Aroclor 1260		1096-82-5				-					< 0.0063	< 0.0058					
Aroclor 1262		7324-23-5				-					< 0.0043	< 0.0039					
Aroclor 1268	11	1100-14-4				-					< 0.0043	< 0.0039					
Pesticides																	
4,4-DDD		2-54-8	14	0.0033	0.0033	2.6	13				< 0.00043	< 0.00039					
4,4-DDE		2-55-9	17	0.0033	0.0033	1.8	8.9				0.00061 JP	< 0.00039					
4,4-DDT		0-29-3	136	0.0033	0.0033	1.7	7.9				< 0.00046	< 0.00042					
Aldrin		09-00-2	0.19	0.14	0.005	0.019	0.097				< 0.00022	< 0.0002					
alpha BHC		19-84-6	0.02	0.04	0.02	0.097	0.48				< 0.00022	< 0.0002					
alpha Chlordane	51	103-71-9	2.9	1.30	0.094	0.91	4.2				< 0.00047	< 0.0002					
beta BHC	31	19-85-7	0.09	0.6	0.036	0.072	0.36				0.00057 JP	< 0.00036					
delta BHC	31	19-86-8	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	95	59-98-8	102		2.4	4.8	24				< 0.00029	< 0.00026					
Endosulfan II	33	3213-65-9	102		2.4	4.8	24				< 0.00043	< 0.00039					
ENDOSULFAN SULFATE	10	031-07-8	1000		2.4	4.8	24				< 0.00043	< 0.00039					
ENDRIN	72	2-20-8	0.06	0.01	0.014	2.2	11				< 0.00043	< 0.00039					
ENDRIN ALDEHYDE	74	121-93-4	-			-					< 0.00043	< 0.00039					
ENDRIN KETONE	53	3494-70-5									< 0.00079	< 0.00071					
gamma BHC (Lindane)	58	3-89-9	0.1	6	0.1	0.28	1.3				0.00038 J	< 0.0002					
gamma Chlordane	51	103-74-2	14			0.54					< 0.00022	< 0.0002					
HEPTACHLOR	76	6-44-8	0.38	0.14	0.042	0.42	2.1				< 0.00022	< 0.0002					
HEPTACHLOR EPOXIDE	10	024-57-3	0.02			0.077					0.00025 JP	< 0.0002					
METHOXYCHLOR	72	2-43-5	900	1.2		100					< 0.0022	< 0.002					
TOXAPHENE	80	001-35-2	-								< 0.018	< 0.017					
Metals																	
Aluminum	74	129-90-5	-	10000				19,200	18,400	19,500	17,700	19,100	17,800	19,200	16,700	19,400	17,600
Antimony		140-36-0		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	74	140-38-2	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		140-39-3	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		140-41-7	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		140-43-9	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		140-70-2	-	10000		_		457	294	407	2,050	1,590	939	892	1,280	613	699
				-	30	36	180	22.3	18.3	21.4	20	24.6	18	21.9	18.8	21.2	20.8
Chromium		140-47-3				30	-	18.2	11.9	12	13.3	16.5	11.4	14.4	12.6	14.2	15.3
	74	140-47-3 140-48-4	_	20										19.6	19.4	25.4	28.6
Cobalt	74 74			20 50	50	270	270	30.7	17.3	27.6	25.1	31.8	14	19.0			
	74 74 74	140-48-4 140-50-8	 1720 			270		30.7				31.8 33.400					31.900
Cobalt Copper Iron	74 74 74 74	140-48-4	1720	50	50		270		17.3 29,000 20.6	27.6 28,500 15.2	25.1 28,600 17.6	31.8 33,400 18.1	26,500 21	28,100 18	25,100 19.6	29,100 19.3	31,900 14.5
Cobalt Copper Iron Lead	74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1	1720 	50 	50 	270 2000	270	30.7 33,700 19.3	29,000 20.6	28,500 15.2	28,600 17.6	33,400 18.1	26,500 21	28,100 18	25,100 19.6	29,100 19.3	14.5
Cobalt Copper Iron Lead Magnesium	74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4	1720 450 	50 63 	50 63 	270 2000 400 	270 400	30.7 33,700 19.3 5,950	29,000 20.6 5,470	28,500 15.2 5,380	28,600 17.6 7,120	33,400 18.1 5,850	26,500 21 4,970	28,100 18 5,850	25,100 19.6 4,960	29,100 19.3 5,870	14.5 5,780
Cobalt Copper Iron Lead Magnesium Manganese	74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5	1720 450 2000	50 63 1600	50 63 1600	270 2000 400 2000	270 400 2000	30.7 33,700 19.3 5,950 1,020 E	29,000 20.6 5,470 721	28,500 15.2 5,380 581	28,600 17.6 7,120 645	33,400 18.1 5,850 891	26,500 21 4,970 1,080	28,100 18 5,850 842	25,100 19.6 4,960 728	29,100 19.3 5,870 704	14.5 5,780 814
Cobalt Copper Iron Lead Magnesium Manganese Nickel	74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0	1720 450 2000 130	50 63 1600 30	50 63 	270 2000 400 	270 400 2000 310	30.7 33,700 19.3 5,950 1,020 E 29.9	29,000 20.6 5,470 721 24.9	28,500 15.2 5,380 581 24.8	28,600 17.6 7,120 645 26.9	33,400 18.1 5,850 891 28	26,500 21 4,970 1,080 23.9	28,100 18 5,850 842 26.2	25,100 19.6 4,960 728 25.5	29,100 19.3 5,870 704 27.8	14.5 5,780 814 28.4
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	74 74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7	1720 450 2000 130	50 63 1600 30	50 63 1600 30 	270 2000 400 2000 140	270 400 2000 310	30.7 33,700 19.3 5,950 1,020 E 29.9 2,340	29,000 20.6 5,470 721 24.9 1,060	28,500 15.2 5,380 581 24.8 2,480	28,600 17.6 7,120 645 26.9 2,340	33,400 18.1 5,850 891 28 2,580	26,500 21 4,970 1,080 23.9 1,340	28,100 18 5,850 842 26.2 1,760	25,100 19.6 4,960 728 25.5 1,740	29,100 19.3 5,870 704 27.8 1,570	14.5 5,780 814 28.4 1,770
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	74 74 74 74 74 74 74 74 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2	1720 450 2000 130 4	50 63 1600 30 3.9	50 63 1600 30 3.9	270 2000 400 2000 140 36	270 400 2000 310 180	30.7 33,700 19.3 5,950 1,020 E 29.9 2,340 0.312 J	29,000 20.6 5,470 721 24.9 1,060 0.317 J	28,500 15.2 5,380 581 24.8 2,480 0.275 J	28,600 17.6 7,120 645 26.9 2,340 0.203 J	33,400 18.1 5,850 891 28 2,580 0.117 J	26,500 21 4,970 1,080 23.9 1,340 0.350 J	28,100 18 5,850 842 26.2 1,760 0.348 J	25,100 19.6 4,960 728 25.5 1,740 0.300 J	29,100 19.3 5,870 704 27.8 1,570 0.370 J	14.5 5,780 814 28.4 1,770 0.202 J
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	74 74 74 74 74 74 74 74 74 77	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2 140-22-4	1720 450 2000 130 4 8.3	50 63 1600 30 3.9	50 63 1600 30 3.9	270 2000 400 2000 140 36	270 400 2000 310 180	30.7 33,700 19.3 5,950 1,020 E 29.9 2,340 0.312 J < 0.0257	29,000 20.6 5,470 721 24.9 1,060 0.317 J 0.0352 J	28,500 15.2 5,380 581 24.8 2,480 0.275 J < 0.0259	28,600 17.6 7,120 645 26.9 2,340 0.203 J < 0.0277	33,400 18.1 5,850 891 28 2,580 0.117 J 0.0378 J	26,500 21 4,970 1,080 23.9 1,340 0.350 J 0.0321 J	28,100 18 5,850 842 26.2 1,760 0,348 J 0,0443 J	25,100 19.6 4,960 728 25.5 1,740 0.300 J 0.0333 J	29,100 19.3 5,870 704 27.8 1,570 0,370 J 0,0306 J	14.5 5,780 814 28.4 1,770 0.202 J < 0.0187
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	74 74 74 74 74 74 74 74 77 74	140-48-4 140-50-8 139-89-6 139-92-1 139-95-4 139-96-5 140-02-0 140-02-0 140-02-0 140-02-1 140-02-4 140-23-5	1720 450 2000 130 4 8.3	50 63 1600 30 3.9 2	50 63 1600 30 3.9 2	270 2000 400 2000 140 36 36	270 400 2000 310 180 180	30.7 33,700 19.3 5,950 1,020 E 29.9 2,340 0.312 J < 0.0257 51.5 J	29,000 20.6 5,470 721 24.9 1,060 0.317 J 0.0352 J 32.9 J	28,500 15.2 5,380 581 24.8 2,480 0.275 J < 0.0259 60.8 J	28,600 17.6 7,120 645 26.9 2,340 0.203 J < 0.0277 62.0 J	33,400 18.1 5,850 891 28 2,580 0.117 J 0.0378 J 63.2 J	26,500 21 4,970 1,080 23.9 1,340 0.350 J 0.0321 J 38.0 J	28,100 18 5,850 842 26.2 1,760 0.348 J 0.0443 J 47.7 J	25,100 19.6 4,960 728 25.5 1,740 0.300 J 0.0333 J 48.3 J	29,100 19.3 5,870 704 27.8 1,570 0.370 J 0.0306 J 44.1 J	14.5 5,780 814 28.4 1,770 0.202 J < 0.0187 44.4 J
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	74 74 74 74 74 74 74 74 74 77 74	140-48-4 140-50-8 139-96-1 139-95-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2 140-22-4 140-23-5 140-28-0	1720 450 2000 130 4 8.3 	50 63 1600 30 3.9 2 5	50 63 1600 30 3.9 2	270 2000 400 2000 140 36 36 	270 400 2000 310 180 180	30.7 33,700 19.3 5,950 1,020 E 29.9 2,340 0.312 J < 0.0257 51.5 J 0.156 J	29,000 20.6 5,470 721 24.9 1,060 0.317 J 0.0352 J 32.9 J 0.115 J	28,500 15.2 5,380 581 24.8 2,480 0.275 J < 0.0259 60.8 J 0.147 J	28,600 17.6 7,120 645 26.9 2,340 0.203 J < 0.0277 62.0 J 0.117 J	33,400 18.1 5,850 891 28 2,580 0.117 J 0.0378 J 63.2 J 0.140 J	26,500 21 4,970 1,080 23.9 1,340 0.350 J 0.0321 J 38.0 J 0.134 J	28,100 18 5,850 842 26.2 1,760 0.348 J 0.0443 J 47.7 J 0.142 J	25,100 19.6 4,960 728 25.5 1,740 0.300 J 0.0333 J 48.3 J 0.145 J	29,100 19.3 5,870 704 27.8 1,570 0.370 J 0.0306 J 44.1 J 0.148 J	14.5 5,780 814 28.4 1,770 0.202 J < 0.0187 44.4 J 0.110 J
Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	74 74 74 74 74 74 74 74 77 74 74	140-48-4 140-50-8 139-96-6 139-95-4 139-96-5 140-02-0 140-09-7 182-49-2 140-22-4 140-23-5 140-28-0 140-62-2	1720 450 2000 130 4 8.3 	50 	50 63 1600 30 3.9 2 	270 2000 400 2000 140 36 36 100	270 400 2000 310 180 180 	30.7 33,700 19.3 5,950 1,020 E 29.9 2,340 0.312 J < 0.0257 51.5 J 0.156 J 28.9	29,000 20.6 5,470 721 24.9 1,060 0.317 J 0.0352 J 32.9 J 0.115 J 24.6	28,500 15.2 5,380 581 24.8 2,480 0.275 J < 0.0259 60.8 J 0.147 J 27.6	28,600 17.6 7,120 645 26.9 2,340 0.203 J < 0.0277 62.0 J 0.117 J 26.6	33,400 18.1 5,850 891 28 2,580 0.117 J 0.0378 J 63.2 J 0.140 J 28.5	26,500 21 4,970 1,080 23.9 1,340 0.350 J 0.0321 J 38.0 J 0.134 J 25.6	28,100 18 5,850 842 26,2 1,760 0.348 J 0.0443 J 47.7 J 0.142 J 26.7	25,100 19.6 4,960 728 25.5 1,740 0.300 J 0.0333 J 48.3 J 0.145 J 26.4	29,100 19.3 5,870 704 27.8 1,570 0.370 J 0.0306 J 44.1 J 0.148 J 28	14.5 5,780 814 28.4 1,770 0.202 J < 0.0187 44.4 J 0.110 J 23.9
Cobalt Copper	74 74 74 74 74 74 74 74 77 74 74 74 74	140-48-4 140-50-8 139-96-1 139-95-1 139-95-4 139-96-5 140-02-0 140-09-7 782-49-2 140-22-4 140-23-5 140-28-0	1720 450 2000 130 4 8.3 	50 63 1600 30 3.9 2 5	50 63 1600 30 3.9 2	270 2000 400 2000 140 36 36 	270 400 2000 310 180 180	30.7 33,700 19.3 5,950 1,020 E 29.9 2,340 0.312 J < 0.0257 51.5 J 0.156 J	29,000 20.6 5,470 721 24.9 1,060 0.317 J 0.0352 J 32.9 J 0.115 J	28,500 15.2 5,380 581 24.8 2,480 0.275 J < 0.0259 60.8 J 0.147 J	28,600 17.6 7,120 645 26.9 2,340 0.203 J < 0.0277 62.0 J 0.117 J	33,400 18.1 5,850 891 28 2,580 0.117 J 0.0378 J 63.2 J 0.140 J	26,500 21 4,970 1,080 23.9 1,340 0.350 J 0.0321 J 38.0 J 0.134 J	28,100 18 5,850 842 26.2 1,760 0.348 J 0.0443 J 47.7 J 0.142 J	25,100 19.6 4,960 728 25.5 1,740 0.300 J 0.0333 J 48.3 J 0.145 J	29,100 19.3 5,870 704 27.8 1,570 0.370 J 0.0306 J 44.1 J 0.148 J	14.5 5,780 814 28.4 1,770 0.202 J < 0.0187 44.4 J 0.110 J

--: 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							OU1EESB38	OU1EESB38	OU1EESB38	OU1EESB39	OU1EESB39	OU1EESB40	OU1EESB40	OU1EESB41	OU1EESB41	OU1EESB41
	Sample Date							5/25/2017	5/25/2017	5/25/2017	5/25/2017	5/25/2017	6/1/2017	6/1/2017	6/1/2017	6/1/2017	6/1/2017
	Field Sample ID				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB38-S-0.17- 0.17-0.5	OU1EESB38-S-1.00-	OU1EESB38-SD-0.50- 0.5-1	OU1EESB39-S-0.17- 0.17-0.5	OU1EESB39-S-1.00-	OU1EESB40-S-0.17- 0.17-0.5	OU1EESB40-S-0.50- 0.5-1	OU1EESB41-S-0.17- 0.17-0.5	OU1EESB41-S-0.50- 0.5-1	OU1EESB41-S-1.00-
	Depth Interval Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	1-2 REG	0.5-1 FD	REG	1-2 REG	REG	REG	0.17-0.5 REG	REG	1-2 REG
Parameter Nar		Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
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 (F 1,1-Dichloroethane	,	76-13-1	6	-		100		< 0.002	< 0.002	< 0.002	-						
1,2,3-Trichlorobenzene		75-34-3 87-61-6	0.27	20	0.27	19	26	< 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							
1,2-Dibromo-3-chloropropane (I		96-12-8	3.4					< 0.001	< 0.001	< 0.001					-		
1,2-Dibromoethane		106-93-4						< 0.002	< 0.002	< 0.002							
1,2-Dichlorobenzene (o-Dichloro		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	0.02	700	0.02	2.3	3.1	< 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	< 0.001	-		-		-		
2-Hexanone	,	591-78-6			0.12			< 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	9)	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	n 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 (Dichlorome	,	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 (Trichloroethyle		79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001			-				
Trichlorofluoromethane (Freon		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							



Sa Parameter Name	Location ID Sample Date eld Sample ID Depth Interval mple Purpose 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
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	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 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	< 0.023	< 0.021	< 0.019	< 0.02
2,4,6-Trichlorophenol	88-06-2		10		-		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
2,4-Dichlorophenol	120-83-2	0.4	20		100		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
2,4-Dimethylphenol	105-67-9	-	-		-		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
2,4-Dinitrophenol 2,4-Dinitrotoluene	51-28-5 121-14-2	0.2	20		100		< 0.36	< 0.35	< 0.36	< 0.4	< 0.33	< 0.42	< 0.42	< 0.37	< 0.35	< 0.36
2,6-Dinitrotoluene	606-20-2	0.17			1.03		< 0.08 < 0.02	< 0.077 < 0.019	< 0.079 < 0.02	< 0.088 < 0.022	< 0.074 < 0.018	< 0.094 < 0.024	< 0.094 < 0.023	< 0.082 < 0.021	< 0.078 < 0.019	< 0.079 < 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	< 0.023	< 0.021	< 0.019	< 0.02
2-Nitroaniline (o-Nitroaniline)	88-74-4	0.4	-		-		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
2-Nitrophenol (o-Nitrophenol)	88-75-5	0.3	7		-		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2		-		-		< 0.12	< 0.12	< 0.12	< 0.13	< 0.11	< 0.14	< 0.14	< 0.12	< 0.12	< 0.12
3-เงเtroaniiine 4,6-Dinitro-2-methylphenol (4,6-Dini		0.5	-		-	-	< 0.08 < 0.2	< 0.077 < 0.19	< 0.079 < 0.2	< 0.088 < 0.22	< 0.074 < 0.18	< 0.094 < 0.24	< 0.094 < 0.23	< 0.082 < 0.21	< 0.078 < 0.19	< 0.079 < 0.2
4-Bromophenylphenylether	101-55-3	-	-		-		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
4-Chloroaniline	106-47-8	0.22	_		100	-	< 0.02	< 0.038	< 0.02	< 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	< 0.023	< 0.021	< 0.019	< 0.02
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	< 0.023	< 0.021	< 0.019	< 0.02
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	< 0.23	< 0.21	< 0.19	< 0.2
Acenaphthene Acenaphthylene	83-32-9 208-96-8	98 107	20	20 100	100 100	100 100	< 0.004	< 0.004	< 0.004	< 0.004 0.005 J	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004
Acetophenone	98-86-2		-			100	< 0.004 < 0.020	< 0.004 < 0.019	< 0.004 < 0.020	< 0.022	< 0.004 < 0.018	< 0.005 < 0.024	< 0.005 < 0.023	0.007 J < 0.021	< 0.004 < 0.019	< 0.004 < 0.020
Anthracene	120-12-7	1000	-	100	100	100	< 0.020	< 0.004	< 0.020	< 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 Benzo(g,h,i)perylene	205-99-2 191-24-2	1.70 1000		100	100	100	0.01 J 0.005 J	< 0.004	0.004 J	0.015 J 0.008 J	< 0.004	0.022 J	0.009 J 0.005 J	0.021 J 0.011 J	< 0.004 < 0.004	< 0.004 < 0.004
Benzo(k)fluoranthene	207-08-9	1.7	-	0.8	100	3.9	0.005 J	< 0.004 < 0.004	< 0.004 < 0.004	0.006 J	< 0.004 < 0.004	< 0.005 < 0.005	< 0.005	0.011 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	< 0.019	< 0.02
bis(2-Ethylhexyl)phthalate	117-81-7	435	239		50		< 0.08	0.19 J	0.16 J	0.27	0.1 J	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
Butylbenzylphthalate	85-68-7	122	-		100		< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
Caprolactam Carbazole	105-60-2 86-74-8	-	-		-		< 0.040	< 0.038	< 0.040	< 0.044	< 0.037	< 0.047	< 0.047	< 0.041	< 0.039	< 0.040
Chrysene	218-01-9	1		1		3.9	< 0.02 0.008 J	< 0.019 < 0.004	< 0.02 < 0.004	< 0.022 0.011 J	< 0.018 < 0.004	< 0.024 0.017 J	< 0.023 0.008 J	< 0.021 0.018 J	< 0.019 < 0.004	< 0.02 0.004 J
Di-n-butylphthalate	84-74-2	8.1	0.01		100		< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
Di-n-octylphthalate	117-84-0	120			100		< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
Dibenz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	< 0.004	< 0.004	< 0.004	0.007 J	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004
Dibenzofuran	132-64-9	6.20		7	14	59	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
Diethylphthalate	84-66-2	7.1	100		100		< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
Dimethyl phthalate	131-11-3	27	200 60		100		< 0.08	< 0.077	< 0.079	< 0.088	< 0.074	< 0.094	< 0.094	< 0.082	< 0.078	< 0.079
Diphenyl (Biphenyl, Phenyl benzene Fluoranthene	92-52-4 206-44-0	1000		100	100	100	< 0.020 0.013 J	< 0.019 < 0.004	< 0.020 0.004 J	< 0.022 0.023	< 0.018 < 0.004	< 0.024 0.028	< 0.023 0.01 J	< 0.021 0.026	< 0.019 < 0.004	< 0.020 < 0.004
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004 3	< 0.004	< 0.004	< 0.005	< 0.005	< 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	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004
Hexachlorobutadiene	87-68-3		-		-		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
Hexachlorocyclopentadiene	77-47-4		10		-		< 0.2	< 0.19	< 0.2	< 0.22	< 0.18	< 0.24	< 0.23	< 0.21	< 0.19	< 0.2
Hexachloroethane	67-72-1	-	-		-		< 0.04	< 0.038	< 0.04	< 0.044	< 0.037	< 0.047	< 0.047	< 0.041	< 0.039	< 0.04
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	0.004 J	< 0.004	< 0.004	0.008 J	< 0.004	0.01 J	< 0.005	0.009 J	< 0.004	< 0.004
Isophorone N-Nitrosodi-n-propylamine	78-59-1 621-64-7	4.4			100		< 0.02 < 0.02	< 0.019 < 0.019	< 0.02	< 0.022 < 0.022	< 0.018 < 0.018	< 0.024	< 0.023 < 0.023	< 0.021 < 0.021	< 0.019	< 0.02 < 0.02
N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine (Diphenyla			20		-		< 0.02	< 0.019	< 0.02 < 0.02	< 0.022 < 0.022	< 0.018	< 0.024 < 0.024	< 0.023	< 0.021 < 0.021	< 0.019 < 0.019	< 0.02
Naphthalene	91-20-3	12		12	100	100	< 0.02	< 0.004	< 0.02	< 0.022	< 0.004	0.009 J	< 0.025	0.006 J	0.013 J	< 0.004
Nitrobenzene	98-95-3	0.17	40		3.7	15	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
p-Chloro-m-cresol	59-50-7	-			-		< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.04	< 0.038	< 0.04	< 0.044	< 0.037	< 0.047	< 0.047	< 0.041	< 0.039	< 0.04
Phenanthrene	85-01-8	1000		100	100	100	0.008 J	< 0.004	< 0.004	0.013 J	< 0.004	0.016 J	0.009 J	0.015 J	< 0.004	< 0.004
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.02	< 0.019	< 0.02	< 0.022	< 0.018	< 0.024	< 0.023	< 0.021	< 0.019	< 0.02
Pyrene	129-00-0	1000	-	100	100	100	0.012 J	< 0.004	< 0.004	0.028	< 0.004	0.026	0.011 J	0.026	< 0.004	0.005 J



Parameter No.	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Param			Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nar Polychlorinated Biphenyls	me Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
Aroclor 1016	12674-11-	2	_		_									< 0.0044	< 0.0042	< 0.0043
Aroclor 1221	11104-28-		_		_									< 0.0056	< 0.0054	< 0.0055
Aroclor 1232	11141-16-		-		_									< 0.0097	< 0.0094	< 0.0096
Aroclor 1242	53469-21-		-											< 0.004	< 0.0039	< 0.004
Aroclor 1248	12672-29-		-		-									< 0.004	< 0.0039	< 0.004
Aroclor 1254	11097-69-				-									< 0.004	< 0.0039	< 0.004
Aroclor 1260	11096-82-				-									< 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-		-	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-		-		-									< 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		-		0.54									< 0.00021	< 0.0002	< 0.0002
HEPTACHLOR HEPTACHLOR EPOXIDE	76-44-8	0.38	0.14	0.042	0.42 0.077	2.1								< 0.00021	< 0.0002	< 0.0002
METHOXYCHLOR	1024-57-3	900	1.2	-	100									< 0.00021	< 0.0002	< 0.0002
TOXAPHENE	72-43-5 8001-35-2									-				< 0.0021 < 0.017	< 0.002 < 0.017	< 0.002 < 0.017
Metals	8001-33-2		-		_									₹ 0.017	< 0.017	₹ 0.017
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		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						0.0 .		0							97.4
			433	350	350	400	59.9	60.8	67.7	44	44.6	67.4	/1.4	66.3	60	
Beryllium	7440-41-7	47	433 10	350 7.2	350 14	400 72	59.9 0.865	60.8 0.7	67.7 0.919	44 0.672	44.6 0.708	67.4 0.922	71.4 0.975	66.3 0.705	60 0.713	1.05
Cadmium	7440-41-7 7440-43-9	47														
•		47 7.50	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	47 7.50 	10 4	7.2 2.5	14 2.5	72 4.3	0.865 0.0854 J	0.7 0.0631 J	0.919 0.0613 J	0.672 0.142 J	0.708 0.0993 J	0.922 0.0538 J	0.975 0.0702 J	0.705 0.104 J	0.713 0.0795 J	1.05 0.0808 J
Cadmium Calcium	7440-43-9 7440-70-2	47 7.50 	10 4 10000	7.2 2.5 	14 2.5 	72 4.3 	0.865 0.0854 J 280	0.7 0.0631 J 266	0.919 0.0613 J 325	0.672 0.142 J 334	0.708 0.0993 J 288	0.922 0.0538 J 434	0.975 0.0702 J 374	0.705 0.104 J 511	0.713 0.0795 J 302	1.05 0.0808 J 397
Cadmium Calcium Chromium	7440-43-9 7440-70-2 7440-47-3	47 7.50 	10 4 10000	7.2 2.5 	14 2.5 36	72 4.3 180	0.865 0.0854 J 280 16.1	0.7 0.0631 J 266 16.3	0.919 0.0613 J 325 17.5	0.672 0.142 J 334 15.9	0.708 0.0993 J 288 16.3	0.922 0.0538 J 434 17.8	0.975 0.0702 J 374 16.3	0.705 0.104 J 511 18.5	0.713 0.0795 J 302 18.2	1.05 0.0808 J 397 21.3
Cadmium Calcium Chromium Cobalt	7440-43-9 7440-70-2 7440-47-3 7440-48-4	47 7.50 1720	10 4 10000 20	7.2 2.5 30	14 2.5 36 30	72 4.3 180 270	0.865 0.0854 J 280 16.1 8.61	0.7 0.0631 J 266 16.3 9.73	0.919 0.0613 J 325 17.5 9.89	0.672 0.142 J 334 15.9 10.2 15.9 24,800	0.708 0.0993 J 288 16.3 12.2	0.922 0.0538 J 434 17.8 9.66 16.2 22,600	0.975 0.0702 J 374 16.3 8.28	0.705 0.104 J 511 18.5 10.4 16.5 24,300	0.713 0.0795 J 302 18.2 10.4	1.05 0.0808 J 397 21.3 11.4
Cadmium Calcium Chromium Cobalt Copper Iron Lead	7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	47 7.50 1720 450	10 4 10000 20 50	7.2 2.5 30 50	14 2.5 36 30 270	72 4.3 180 270	0.865 0.0854 J 280 16.1 8.61 11.8 21,700	0.7 0.0631 J 266 16.3 9.73 14.8 24,300	0.919 0.0613 J 325 17.5 9.89 11.1 24,900	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25	0.708 0.0993 J 288 16.3 12.2 19.7 28,500	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1	0.975 0.0702 J 374 16.3 8.28 15.9 21,500	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5	0.713 0.0795 J 302 18.2 10.4 16.6 25,100	1.05 0.0808 J 397 21.3 11.4 17 26,800
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	47 7.50 1720 450	10 4 10000 20 50	7.2 2.5 30 50	14 2.5 36 30 270 2000	72 4.3 180 270	0.865 0.0854 J 280 16.1 8.61 11.8 21,700	0.7 0.0631 J 266 16.3 9.73 14.8 24,300	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640	0.708 0.0993 J 288 16.3 12.2 19.7 28,500	0.922 0.0538 J 434 17.8 9.66 16.2 22,600	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780	0.713 0.0795 J 302 18.2 10.4 16.6 25,100	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5	47 7.50 1720 450 2000	10 4 10000 20 50 63 1600	7.2 2.5 30 50 63 1600	14 2.5 36 30 270 2000 400 2000	72 4.3 180 270 400 2000	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-92-1 7439-95-4 7439-96-5	47 7.50 1720 450 2000 130	10 4 10000 20 50 63 1600	7.2 2.5 30 50 63	14 2.5 36 30 270 2000 400 2000 140	72 4.3 180 270 400 2000 310	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	47 7.50 1720 450 2000 130	10 4 10000 20 50 63 1600 30	7.2 2.5 30 50 63 1600 30	14 2.5 36 30 270 2000 400 2000 140	72 4.3 180 270 400 2000 310	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19 934	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2 1,230	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9 1,180	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3 1,340	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2 1,330	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2 1,070	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1 1,570	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4 1,140	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1 1,350
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-43-9 7440-70-2 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-96-5 7440-02-0 7440-09-7 7782-49-2	47 7.50 1720 450 2000 130 4	10 4 10000 20 50 63 1600 30 3.9	7.2 2.5 30 50 63 1600 30 3.9	14 2.5 36 30 270 2000 400 2000 140 36	72 4.3 180 270 400 2000 310 180	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19 934 0.407 J	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2 1,230 0.190 J	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9 1,180 0.276 J	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3 1,340 0.411 J	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2 1,330 0.127 J	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2 1,070 0.486 J	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19 964 0.301 J	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1 1,570 0.409 J	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4 1,140 0.268 J	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1 1,350 0.317 J
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	47 7.50 1720 450 2000 130 4 8.3	10 4 10000 20 50 63 1600 30 3.9	7.2 2.5 30 50 63 1600 30 3.9	14 2.5 36 30 270 2000 400 2000 140 36 36	72 4.3 180 2000 310 180 180	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19 934 0.407 J 0.0995 J	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2 1,230 0.190 J 0.0518 J	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9 1,180 0.276 J 0.0654 J	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3 1,340 0.411 J 0.0749 J	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2 1,330 0.127 J < 0.0215	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2 1,070 0.486 J 0.151 J	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19 964 0.301 J 0.134 J	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1 1,570 0.409 J 0.0750 J	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4 1,140 0.268 J 0.0468 J	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1 1,350 0.317 J 0.0927 J
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-7 7782-49-2 7440-22-4 7440-23-5	47 7.50 1720 450 2000 130 4 8.3	10 4 10000 20 50 63 1600 30 3.9 2	7.2 2.5 30 50 63 1600 30 3.9 2	14 2.5 36 30 270 2000 400 2000 140 36 36	72 4.3 180 270 400 2000 310 180 180	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19 934 0.407 J 0.0995 J 40.6 J	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2 1,230 0.190 J 0.0518 J 42.1 J	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9 1,180 0.276 J 0.0654 J 41.8 J	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3 1,340 0.411 J 0.0749 J 43.7 J	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2 1,330 0.127 J < 0.0215 47.9 J	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2 1,070 0.486 J 0.151 J 44.7 J	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19 964 0.301 J 0.134 J 36.0 J	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1 1,570 0.409 J 0.0750 J 44.3 J	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4 1,140 0.268 J 0.0468 J 37.7 J	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1 1,350 0.317 J 0.0927 J 42.6 J
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-43-9 7440-70-2 7440-48-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-7 7782-49-2 7440-22-4 7440-23-5	47 7.50 1720 450 2000 130 4 8.3	10 4 10000 20 50 63 1600 30 3.9 2	7.2 2.5 30 50 63 1600 30 3.9 2	14 2.5 36 30 270 2000 400 2000 140 36 36 	72 4.3 180 270 400 2000 310 180 180	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19 934 0.407 J 0.0995 J 40.6 J 0.146 J	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2 1,230 0.190 J 0.0518 J 42.1 J 0.111 J	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9 1,180 0.276 J 0.0654 J 41.8 J 0.139 J	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3 1,340 0.411 J 0.0749 J 43.7 J 0.134 J	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2 1,330 0.127 J < 0.0215 47.9 J 0.108 J	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2 1,070 0.486 J 0.151 J 44.7 J 0.171 J	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19 964 0.301 J 0.134 J 36.0 J 0.149 J	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1 1,570 0.409 J 0.0750 J 44.3 J 0.129 J	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4 1,140 0.268 J 0.0468 J 37.7 J 0.0928 J	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1 1,350 0.317 J 0.0927 J 42.6 J 0.162 J
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0 7440-62-2	47 7.50 1720 450 2000 130 4 8.3	10 4 10000 20 50 63 1600 30 3.9 2 5	7.2 2.5 30 50 63 1600 30 3.9 2	14 2.5 36 30 270 2000 400 2000 140 36 36 100	72 4.3 180 270 400 2000 310 180	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19 934 0.407 J 0.0995 J 40.6 J 0.146 J 25.8	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2 1,230 0.190 J 0.0518 J 42.1 J 0.111 J 22.9	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9 1,180 0.276 J 0.0654 J 41.8 J 0.139 J 25.6	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3 1,340 0.411 J 0.0749 J 43.7 J 0.134 J 24.8	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2 1,330 0.127 J <0.0215 47.9 J 0.108 J 21	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2 1,070 0.486 J 0.151 J 44.7 J 0.171 J 27.8	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19 964 0.301 J 0.134 J 36.0 J 0.149 J 24.8	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1 1,570 0.409 J 0.0750 J 44.3 J 0.129 J 26.8	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4 1,140 0.268 J 0.0468 J 37.7 J 0.0928 J 21.2	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1 1,350 0.317 J 0.0927 J 42.6 J 0.162 J 28.3
Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-43-9 7440-70-2 7440-48-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-7 7782-49-2 7440-22-4 7440-23-5	47 7.50 1720 450 2000 130 4 8.3 2480	10 4 10000 20 50 63 1600 30 3.9 2	7.2 2.5 30 50 63 1600 30 3.9 2	14 2.5 36 30 270 2000 400 2000 140 36 36 	72 4.3 180 270 400 2000 310 180 180	0.865 0.0854 J 280 16.1 8.61 11.8 21,700 15.7 3,940 709 19 934 0.407 J 0.0995 J 40.6 J 0.146 J	0.7 0.0631 J 266 16.3 9.73 14.8 24,300 10 4,870 452 20.2 1,230 0.190 J 0.0518 J 42.1 J 0.111 J	0.919 0.0613 J 325 17.5 9.89 11.1 24,900 11.2 4,560 704 22.9 1,180 0.276 J 0.0654 J 41.8 J 0.139 J	0.672 0.142 J 334 15.9 10.2 15.9 24,800 25 4,640 569 20.3 1,340 0.411 J 0.0749 J 43.7 J 0.134 J	0.708 0.0993 J 288 16.3 12.2 19.7 28,500 13.3 5,620 734 23.2 1,330 0.127 J < 0.0215 47.9 J 0.108 J	0.922 0.0538 J 434 17.8 9.66 16.2 22,600 22.1 4,360 787 20.2 1,070 0.486 J 0.151 J 44.7 J 0.171 J	0.975 0.0702 J 374 16.3 8.28 15.9 21,500 13.2 3,960 777 19 964 0.301 J 0.134 J 36.0 J 0.149 J	0.705 0.104 J 511 18.5 10.4 16.5 24,300 23.5 4,780 723 22.1 1,570 0.409 J 0.0750 J 44.3 J 0.129 J	0.713 0.0795 J 302 18.2 10.4 16.6 25,100 11.4 4,860 773 22.4 1,140 0.268 J 0.0468 J 37.7 J 0.0928 J	1.05 0.0808 J 397 21.3 11.4 17 26,800 14.3 4,910 952 E 25.1 1,350 0.317 J 0.0927 J 42.6 J 0.162 J

--: 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



Fie C Sar Parameter Name	Location ID Sample Date eld Sample ID Depth Interval mple Purpose	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																
1,1 Dichloroethene		-35-4	0.33		0.33	100	100			< 0.001	< 0.001						
1,1,1-Trichloroethane		-55-6	0.68		0.68	100	100			< 0.001	< 0.001						
1,1,2,2-Tetrachloroethane		-34-5	0.6	-		35				< 0.001	< 0.001						
1,1,2-Trichloroethane		-00-5	-	-		-				< 0.001	< 0.001						
1,1,2-Trichlorotrifluoroethane (Freon		-13-1	6	-		100				< 0.002	< 0.003						
1,1-Dichloroethane		-34-3	0.27	-	0.27	19	26			< 0.001	< 0.001						
1,2,3-Trichlorobenzene		-61-6	-	20		-				< 0.001	< 0.001						
1,2,4-Trichlorobenzene		0-82-1	3.4	20		-				< 0.001	< 0.001						
1,2-Dibromo-3-chloropropane (DBCF		-12-8	-			-				< 0.002	< 0.003						
1,2-Dibromoethane		6-93-4				-				< 0.001	< 0.001						
1,2-Dichlorobenzene (o-Dichloroben	nzene) 95	-50-1	1.1		1.1	100	100			< 0.001	< 0.001						
1,2-Dichloroethane	10	7-06-2	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	54	1-73-1	2.4		2.4	17	49			< 0.001	< 0.001						
1,4-Dichlorobenzene	10	6-46-7	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	59	1-78-6				-				< 0.004	< 0.004						
4-Methyl-2-pentanone	10	8-10-1	1			-				< 0.004	< 0.004						
Acetone	67-	-64-1	0.05	2.2	0.05	100	100	-		0.35	0.21						
Benzene		-43-2	0.06	70	0.06	2.9	4.8			< 0.0006	< 0.0007						
Bromochloromethane		-97-5				_				< 0.001	< 0.001						
Bromodichloromethane		-27-4								< 0.001	< 0.001						
Bromoform		-25-2								< 0.001	< 0.001						
Bromomethane (Methyl bromide)		-83-9								< 0.002	< 0.003						
Carbon disulfide		-15-0	2.7			100				< 0.001	< 0.001						
Carbon Tetrachloride		-23-5	0.76		0.76	1.4	2.4			< 0.001	< 0.001						
Chlorobenzene		8-90-7	1.1	40	1.1	100	100			< 0.001	< 0.001						
Chloroethane		-00-3	1.9					-		< 0.001	< 0.003			-			
Chloroform		-66-3	0.37	12	0.37	10	49	-		< 0.002	< 0.003		-	-			-
Chloromethane (Methyl chloride)		-87-3			0.37					< 0.001	< 0.003			-			
cis-1,2-Dichloroethene		6-59-2	0.25		0.25	59	100			< 0.002	< 0.003			-			
		061-01-5			0.25						< 0.001						
cis-1,3-Dichloropropene			-			-	-		-	< 0.001							
Cyclohexane		0-82-7	-			-	-			< 0.001	< 0.001						
Dibromochloromethane		4-48-1	-	10		-				< 0.001	< 0.001						
Dichlorodifluoromethane (Freon 12)		-71-8	-			-				< 0.002	< 0.003			-			
Diisopropyl ether		8-20-3	-			-		-		< 0.001	< 0.001	-				-	
Ethyl-t-butylether		7-92-3	-							< 0.001	< 0.001						
Ethylbenzene		0-41-4	1		1	30	41			< 0.001	< 0.001						
Isopropylbenzene		-82-8	2.3			100				< 0.001	< 0.001			-			
m,p-Xylenes		LENES-MP				-				< 0.001	< 0.001						
Methyl acetate		-20-9	-			-				0.003 J	0.01						
Methyl-t-butyl ether		34-04-4	0.93		0.93	62	100			< 0.0006	< 0.0007						
Methylcyclohexane		8-87-2	-			-				< 0.001	< 0.001						
Methylene chloride (Dichloromethane		-09-2	0.05	12	0.05	51	100			< 0.002	< 0.003						
o-Xylene		-47-6	-			-				< 0.001	< 0.001						
Styrene		0-42-5	-	300		-				< 0.001	< 0.001						
tert-Amyl methyl ether		4-05-8				-				< 0.001	< 0.001						
Tertiary Butyl Alcohol		-65-0				-				0.054 J	< 0.026						
Tetrachloroethene		7-18-4	1.3	2	1.3	5.5	19			< 0.001	< 0.001						
Toluene	10	8-88-3	0.7	36	0.7	100	100			< 0.001	< 0.001						
trans-1,2-Dichloroethene	15	6-60-5	0.19		0.19	100	100			< 0.001	< 0.001						
trans-1,3-Dichloropropene	10	061-02-6				-				< 0.001	< 0.001						
Trichloroethene (Trichloroethylene)		-01-6	0.47	2	0.47	10	21			< 0.001	< 0.001						
Trichlorofluoromethane (Freon 11)		-69-4	-			_				< 0.002	< 0.003						
Vinyl chloride (Chloroethene)		-01-4	0.02	-	0.02	0.21	0.9			< 0.001	< 0.001						
Xylene (total)		30-20-7	1.60	0.26	0.26	100	100			< 0.001	< 0.001						



S 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 Compound 1,2,4,5-Tetrachlorobenzene		5-94-3						< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
1,4-Dioxane		23-91-1	0.1	0.1	0.1	9.8	13	< 0.023	< 0.02	< 0.12	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2,3,4,6-Tetrachlorophenol		8-90-2	-	-		-	-	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
2,4,5-Trichlorophenol		5-95-4	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		8-06-2		10				< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
2,4-Dichlorophenol 2,4-Dimethylphenol		20-83-2 05-67-9	0.4	20		100		< 0.023 < 0.023	< 0.02 < 0.02	< 0.021 < 0.021	< 0.026 < 0.026	< 0.022 < 0.022	< 0.022 < 0.022	< 0.02 < 0.02	< 0.022 < 0.022	< 0.021 < 0.021	< 0.02 < 0.02
2,4-Dinitrophenol		1-28-5	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		21-14-2	-					< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
2,6-Dinitrotoluene		06-20-2	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 2-Chlorophenol (o-Chlorophenol)		1-58-7 5-57-8		0.80		100	-	< 0.009 < 0.023	< 0.008 < 0.02	< 0.008	< 0.01 < 0.026	< 0.009 < 0.022	< 0.009	< 0.008 < 0.02	< 0.009	< 0.008 < 0.021	< 0.008 < 0.02
2-Methyl-Naphthalene		5-5 <i>7-</i> 6 1-57-6	36.4	0.80		0.41	-	0.023 0.005 J	< 0.02	< 0.021 < 0.004	< 0.026	< 0.022	< 0.022 < 0.004	< 0.02	< 0.022 < 0.004	< 0.021	< 0.02
2-Methylphenol (o-Cresol)		5-48-7	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)		8-74-4	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)		8-75-5	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 3-Nitroaniline		1-94-1 9-09-2	0.5			-		< 0.14 < 0.093	< 0.12 < 0.078	< 0.12 < 0.083	< 0.15 < 0.1	< 0.13 < 0.088	< 0.13 < 0.089	< 0.12 < 0.081	< 0.13 < 0.087	< 0.12 < 0.082	< 0.12 < 0.08
4,6-Dinitro-2-methylphenol (4,6-Di		9-09-2 34-52-1	U.5 	-	-	-	-	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
4-Bromophenylphenylether		01-55-3	-	-		-		< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
4-Chloroaniline		06-47-8	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		005-72-3						< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
4-Methylphenol (p-Cresol) 4-Nitroaniline		06-44-5 00-01-6	0.33		0.33	34	100	< 0.023 < 0.093	< 0.02 < 0.078	< 0.021 < 0.083	< 0.026 < 0.1	< 0.022 < 0.088	< 0.022 < 0.089	< 0.02 < 0.081	< 0.022 < 0.087	< 0.021 < 0.082	< 0.02 < 0.08
4-Nitrophenol		00-02-7	0.1	7	-	-		< 0.23	< 0.2	< 0.21	< 0.26	< 0.22	< 0.22	< 0.2	< 0.22	< 0.21	< 0.2
Acenaphthene	8	3-32-9	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		08-96-8	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		8-86-2						< 0.023	< 0.020	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
Anthracene Atrazine		20-12-7 912-24-9	1000		100	100	100	0.005 J < 0.047	< 0.004 < 0.039	< 0.004 < 0.041	< 0.005 < 0.052	< 0.004 < 0.044	< 0.004 < 0.044	< 0.004 < 0.041	0.005 J < 0.043	< 0.004 < 0.041	< 0.004 < 0.04
Benzaldehyde		00-52-7	_			-	-	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
Benzo(a)anthracene	5	6-55-3	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		0-32-8	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		05-99-2 91-24-2	1.70 1000	-	100	100	1 100	0.024 0.012 J	0.013 J 0.006 J	0.017 J 0.006 J	0.009 J < 0.005	0.016 J 0.009 J	0.007 J 0.006 J	< 0.004 < 0.004	0.022 0.015 J	0.009 J 0.006 J	0.004 J < 0.004
Benzo(g,h,i)perylene Benzo(k)fluoranthene		07-08-9	1.7		0.8	100	3.9	0.012 J 0.009 J	0.006 J	0.006 J	< 0.005	0.009 J 0.01 J	< 0.004	< 0.004	0.015 J	0.006 J	< 0.004
bis(2-Chloroethoxy)methane		11-91-1	-	-		-	-	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-Chloroethyl) ether		11-44-4	-	-		-		< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-chloroisopropyl) ether		08-60-1						< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
bis(2-Ethylhexyl)phthalate Butylbenzylphthalate		17-81-7 5-68-7	435 122	239		50 100		< 0.093 < 0.093	0.088 J < 0.078	< 0.083 < 0.083	< 0.1 < 0.1	< 0.088 < 0.088	< 0.089 < 0.089	< 0.081 < 0.081	< 0.087 < 0.087	< 0.082 < 0.082	< 0.08 < 0.08
Caprolactam		05-60-2						< 0.047	< 0.078	< 0.041	< 0.052	< 0.044	< 0.044	< 0.041	< 0.043	< 0.041	< 0.04
Carbazole		6-74-8						< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
Chrysene	2	18-01-9	1		1	1	3.9	0.018 J	0.011 J	0.011 J	0.01 J	0.016 J	0.008 J	< 0.004	0.022	0.01 J	< 0.004
Di-n-butylphthalate		4-74-2	8.1	0.01		100		< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
Di-n-octylphthalate Dibenz(a,h)anthracene		17-84-0 3-70-3	120 1000		0.33	100 0.33	0.33	< 0.093 < 0.005	< 0.078 < 0.004	< 0.083 < 0.004	< 0.1 < 0.005	< 0.088 < 0.004	< 0.089 < 0.004	< 0.081 < 0.004	< 0.087 < 0.004	< 0.082 < 0.004	< 0.08 < 0.004
Dibenzofuran		32-64-9	6.20		7	14	59	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
Diethylphthalate	8	4-66-2	7.1	100	-	100		< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
Dimethyl phthalate		31-11-3	27	200		100	-	< 0.093	< 0.078	< 0.083	< 0.1	< 0.088	< 0.089	< 0.081	< 0.087	< 0.082	< 0.08
Diphenyl (Biphenyl, Phenyl benzer Fluoranthene		2-52-4 06-44-0	1000	60	100	100	100	< 0.023	< 0.020	< 0.021	< 0.026 0.012 J	< 0.022 0.022 J	< 0.022	< 0.02 < 0.004	< 0.022	< 0.021	< 0.02 0.005 J
Fluoranthene		6-73-7	386	30	30	100	100	0.025 < 0.005	0.016 J < 0.004	0.017 J < 0.004	0.012 J < 0.005	0.022 J < 0.004	0.009 J < 0.004	< 0.004	0.032 < 0.004	0.012 J < 0.004	< 0.005 J
Hexachlorobenzene		18-74-1	1.4		0.33	0.33	1.2	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Hexachlorobutadiene	8	7-68-3	-	-			-	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
Hexachlorocyclopentadiene		7-47-4	-	10		-		< 0.23	< 0.2	< 0.21	< 0.26	< 0.22	< 0.22	< 0.2	< 0.22	< 0.21	< 0.2
Hexachloroethane Indeno(1,2,3-cd)Pyrene		7-72-1 93-39-5	 8.2		0.5	0.5	0.5	< 0.047 0.009 J	< 0.039 0.005 J	< 0.041 0.006 J	< 0.052 < 0.005	< 0.044 0.008 J	< 0.044 < 0.004	< 0.041 < 0.004	< 0.043 0.012 J	< 0.041 0.004 J	< 0.04 < 0.004
Isophorone		93-39-5 8-59-1	4.4	-	U.5 	100	U.5 	< 0.009 3	< 0.02	< 0.021	< 0.005	< 0.022	< 0.004	< 0.004	< 0.022	< 0.004 3	< 0.004
N-Nitrosodi-n-propylamine		21-64-7		-		-	-	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
N-Nitrosodiphenylamine (Diphenyl		6-30-6	-	20		-	-	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
Naphthalene		1-20-3	12		12	100	100	0.007 J	< 0.004	0.005 J	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Nitrobenzene p-Chloro-m-cresol		8-95-3 9-50-7	0.17	40		3.7	15	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02 < 0.02	< 0.022	< 0.021	< 0.02
Pentachlorophenol		9-50-7 7-86-5	0.8	0.8	0.8	2.4	6.7	< 0.023 < 0.047	< 0.02 < 0.039	< 0.021 < 0.041	< 0.026 < 0.052	< 0.022 < 0.044	< 0.022 < 0.044	< 0.02 < 0.041	< 0.022 < 0.043	< 0.021 < 0.041	< 0.02 < 0.04
Phenanthrene		5-01-8	1000		100	100	100	0.017 J	0.011 J	0.013 J	0.007 J	0.014 J	0.007 J	< 0.004	0.021 J	0.007 J	< 0.004
Phenol		08-95-2	0.33	30	0.33	100	100	< 0.023	< 0.02	< 0.021	< 0.026	< 0.022	< 0.022	< 0.02	< 0.022	< 0.021	< 0.02
Pyrene	1	29-00-0	1000		100	100	100	0.024	0.016 J	0.019 J	0.012 J	0.023	0.011 J	< 0.004	0.032	0.013 J	0.006 J



Parameter Non	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nan Polychlorinated Biphenyls	me	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted							<u> </u>			
Aroclor 1016	12	2674-11-2				_					-		-		< 0.0047	< 0.0044	< 0.0043
Aroclor 1221		1104-28-2		-		_	-				-	-			< 0.0047	< 0.0057	< 0.0055
Aroclor 1232		1141-16-5		-			-					-			< 0.01	< 0.0099	< 0.0096
Aroclor 1242		3469-21-9		-	-	_	-					-			< 0.0043	< 0.0033	< 0.004
Aroclor 1248		2672-29-6				-									< 0.0043	< 0.0041	< 0.004
Aroclor 1254		1097-69-1													< 0.0043	< 0.0041	< 0.004
Aroclor 1260		1096-82-5													< 0.0064	< 0.006	< 0.0059
Aroclor 1262		7324-23-5				-								-	< 0.0043	< 0.0041	< 0.004
Aroclor 1268		1100-14-4													< 0.0043	< 0.0041	< 0.004
Pesticides							1				l .						
4,4-DDD	72	2-54-8	14	0.0033	0.0033	2.6	13								< 0.00043	< 0.0004	< 0.00039
4,4-DDE		2-55-9	17	0.0033	0.0033	1.8	8.9								0.0026	0.00098 J	0.00055 J
4,4-DDT		0-29-3	136	0.0033	0.0033	1.7	7.9								0.0017 J	< 0.00043	< 0.00042
Aldrin		09-00-2	0.19	0.14	0.005	0.019	0.097								< 0.00022	< 0.00021	< 0.0002
alpha BHC		19-84-6	0.02	0.04	0.02	0.097	0.48								< 0.00022	< 0.00021	< 0.0002
alpha Chlordane		103-71-9	2.9	1.30	0.094	0.91	4.2								0.0003 J	0.0081	< 0.0002
beta BHC		19-85-7	0.09	0.6	0.036	0.072	0.36								0.0012 J	< 0.00037	< 0.00036
delta BHC		19-86-8	0.25	0.04	0.04	100	100								< 0.00058	< 0.00055	< 0.00054
DIELDRIN		0-57-1	0.1	0.006	0.005	0.039	0.2								< 0.00043	< 0.0004	< 0.00039
Endosulfan I	95	59-98-8	102		2.4	4.8	24								< 0.00028	< 0.00027	< 0.00026
Endosulfan II	33	3213-65-9	102		2.4	4.8	24								< 0.00043	< 0.0004	< 0.00039
ENDOSULFAN SULFATE	10	031-07-8	1000		2.4	4.8	24								< 0.00043	< 0.0004	< 0.00039
ENDRIN	72	2-20-8	0.06	0.01	0.014	2.2	11								< 0.00063	< 0.0004	< 0.00039
ENDRIN ALDEHYDE	74	421-93-4				-									< 0.00043	< 0.0004	< 0.00039
ENDRIN KETONE	53	3494-70-5				-									< 0.00078	< 0.00073	< 0.00072
gamma BHC (Lindane)	58	8-89-9	0.1	6	0.1	0.28	1.3								< 0.00022	< 0.00021	< 0.0002
gamma Chlordane	51	103-74-2	14			0.54									0.00027 JP	< 0.00021	< 0.0002
HEPTACHLOR	76	6-44-8	0.38	0.14	0.042	0.42	2.1								< 0.00022	< 0.00021	< 0.0002
HEPTACHLOR EPOXIDE	10	024-57-3	0.02			0.077									< 0.00022	< 0.00021	
METHOXYCHLOR	72	2-43-5	900	1.2		100									< 0.0022	< 0.0021	< 0.002
TOXAPHENE	80	001-35-2													< 0.018	< 0.017	< 0.017
Metals																	
Aluminum	74	429-90-5		10000				24,200	20,900	16,200	17,100	14,700	16,000	17,200	18,400	21,800	18,400
Antimony	74	440-36-0	-	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	74	440-38-2	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	74	440-39-3	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	74	440-41-7	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		440-43-9	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		440-70-2		10000		-		1,660	785	540	584	629	441	300	645	643	352
Chromium		440-47-3	-		30	36	180	27.9	28.3	15.3	17.2	11.6	12.3	15	16.5	20.2	18.8
Cobalt	74	440-48-4	-	20	-	30	-	13.3	11	8.82	10.8	5.63	6.46	8.32	7.57	10	10.5
			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
Copper		440-50-8				2000		34,800	29,200	21,500	28,400	14,900	15,600	22,600	19,100	23,300	24,400
Copper Iron	74	439-89-6	-	-							40.0	17.8	12.9	10.8	23	15.9	12.6
Copper Iron Lead	74 74	439-89-6 439-92-1		63	63	400	400	25.3	19	21.7	18.2						
Copper Iron Lead Magnesium	74 74 74	439-89-6 439-92-1 439-95-4	 450 	63 	63	400	-	6,980	5,870	3,890	4,980	2,710	2,770	4,110	3,540	4,240	4,240
Copper Iron Lead Magnesium Manganese	74 74 74 74	439-89-6 439-92-1 439-95-4 439-96-5	 450 2000	63 1600	63 1600	400 2000	2000	6,980 851	5,870 736	3,890 715	4,980 766	2,710 381	2,770 447	4,110 453	3,540 732	4,240 740	578
Copper Iron Lead Magnesium Manganese Nickel	74 74 74 74 74	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0	 450 2000 130	63 1600 30	63 1600 30	400	 2000 310	6,980 851 27.2	5,870 736 23.4	3,890 715 18.6	4,980 766 24.2	2,710 381 12.6	2,770 447 12.9	4,110 453 17.8	3,540 732 17.4	4,240 740 19.8	578 20
Copper Iron Lead Magnesium Manganese Nickel Potassium	74 74 74 74 74 74	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0 440-09-7	 450 2000 130	63 1600 30 	63 1600 30 	400 2000 140 	2000 310	6,980 851 27.2 2,970	5,870 736 23.4 2,190	3,890 715 18.6 1,070	4,980 766 24.2 843	2,710 381 12.6 620	2,770 447 12.9 586	4,110 453 17.8 585	3,540 732 17.4 1,250	4,240 740 19.8 1,450	578 20 1,690
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	74 74 74 74 74 74 77	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0 440-09-7 782-49-2	 450 2000 130 4	63 1600 30 3.9	63 1600 30 3.9	400 2000 140 36	2000 310 180	6,980 851 27.2 2,970 0.369 J	5,870 736 23.4 2,190 0.350 J	3,890 715 18.6 1,070 0.514 J	4,980 766 24.2 843 0.325 J	2,710 381 12.6 620 0.487 J	2,770 447 12.9 586 0.413 J	4,110 453 17.8 585 0.269 J	3,540 732 17.4 1,250 0.59 J	4,240 740 19.8 1,450 0.44 J	578 20 1,690 0.324 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	74 74 74 74 74 74 77	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0 440-09-7 782-49-2 440-22-4	 450 2000 130 4 8.3	63 1600 30 3.9 2	63 1600 30 3.9 2	400 2000 140 36 36	2000 310 180	6,980 851 27.2 2,970 0.369 J 0.0570 J	5,870 736 23.4 2,190 0.350 J 0.0447 J	3,890 715 18.6 1,070 0.514 J 0.0984 J	4,980 766 24.2 843 0.325 J 0.0645 J	2,710 381 12.6 620 0.487 J 0.108 J	2,770 447 12.9 586 0.413 J 0.0907 J	4,110 453 17.8 585 0.269 J 0.0338 J	3,540 732 17.4 1,250 0.59 J 0.149 J	4,240 740 19.8 1,450 0.44 J 0.0991 J	578 20 1,690 0.324 J 0.0701 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	74 74 74 74 74 77 77 74	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0 440-09-7 782-49-2 440-22-4 440-23-5	 450 2000 130 4 8.3	63 1600 30 3.9 2	63 1600 30 3.9 2	400 2000 140 36	2000 310 180 180	6,980 851 27.2 2,970 0.369 J 0.0570 J 76.8 J	5,870 736 23.4 2,190 0.350 J 0.0447 J 60.4 J	3,890 715 18.6 1,070 0.514 J 0.0984 J 30.7 J	4,980 766 24.2 843 0.325 J 0.0645 J 30 J	2,710 381 12.6 620 0.487 J 0.108 J 81.7 J	2,770 447 12.9 586 0.413 J 0.0907 J 27.4 J	4,110 453 17.8 585 0.269 J 0.0338 J 25.6 J	3,540 732 17.4 1,250 0.59 J 0.149 J 41.3 J	4,240 740 19.8 1,450 0.44 J 0.0991 J 50 J	578 20 1,690 0.324 J 0.0701 J 43.7 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	74 74 74 74 74 77 74 77 74	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0 440-09-7 782-49-2 440-22-4 440-23-5 440-28-0	 450 2000 130 4 8.3 	63 1600 30 3.9 2 5	63 1600 30 3.9 2	400 2000 140 36 36 	2000 310 180	6,980 851 27.2 2,970 0.369 J 0.0570 J 76.8 J 0.208 J	5,870 736 23.4 2,190 0.350 J 0.0447 J 60.4 J 0.175 J	3,890 715 18.6 1,070 0.514 J 0.0984 J 30.7 J 0.142 J	4,980 766 24.2 843 0.325 J 0.0645 J 30 J 0.12 J	2,710 381 12.6 620 0.487 J 0.108 J 81.7 J 0.142 J	2,770 447 12.9 586 0.413 J 0.0907 J 27.4 J 0.124 J	4,110 453 17.8 585 0.269 J 0.0338 J 25.6 J 0.11 J	3,540 732 17.4 1,250 0.59 J 0.149 J 41.3 J	4,240 740 19.8 1,450 0.44 J 0.0991 J 50 J 0.187 J	578 20 1,690 0.324 J 0.0701 J 43.7 J 0.163 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	74 74 74 74 74 74 77 74 74 74	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0 440-09-7 782-49-2 440-22-4 440-23-5 440-28-0 440-62-2	 450 2000 130 4 8.3 	63 1600 30 3.9 2 5	63 1600 30 3.9 2 	400 2000 140 36 36 100	 2000 310 180 180 	6,980 851 27.2 2,970 0.369 J 0.0570 J 76.8 J 0.208 J 38.7	5,870 736 23.4 2,190 0.350 J 0.0447 J 60.4 J 0.175 J 28.6	3,890 715 18.6 1,070 0.514 J 0.0984 J 30.7 J 0.142 J 22.8	4,980 766 24.2 843 0.325 J 0.0645 J 30 J 0.12 J 22.2	2,710 381 12.6 620 0.487 J 0.108 J 81.7 J 0.142 J 18.1	2,770 447 12.9 586 0.413 J 0.0907 J 27.4 J 0.124 J 18.5	4,110 453 17.8 585 0.269 J 0.0338 J 25.6 J 0.11 J 20.4	3,540 732 17.4 1,250 0.59 J 0.149 J 41.3 J 0.177 J 26.9	4,240 740 19.8 1,450 0.44 J 0.0991 J 50 J 0.187 J 28.8	578 20 1,690 0.324 J 0.0701 J 43.7 J 0.163 J 25.8
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	74 74 74 74 74 74 74 74 74 74	439-89-6 439-92-1 439-95-4 439-96-5 440-02-0 440-09-7 782-49-2 440-22-4 440-23-5 440-28-0	 450 2000 130 4 8.3 	63 1600 30 3.9 2 5	63 1600 30 3.9 2	400 2000 140 36 36 	2000 310 180 180	6,980 851 27.2 2,970 0.369 J 0.0570 J 76.8 J 0.208 J	5,870 736 23.4 2,190 0.350 J 0.0447 J 60.4 J 0.175 J	3,890 715 18.6 1,070 0.514 J 0.0984 J 30.7 J 0.142 J	4,980 766 24.2 843 0.325 J 0.0645 J 30 J 0.12 J	2,710 381 12.6 620 0.487 J 0.108 J 81.7 J 0.142 J	2,770 447 12.9 586 0.413 J 0.0907 J 27.4 J 0.124 J	4,110 453 17.8 585 0.269 J 0.0338 J 25.6 J 0.11 J	3,540 732 17.4 1,250 0.59 J 0.149 J 41.3 J	4,240 740 19.8 1,450 0.44 J 0.0991 J 50 J 0.187 J	578 20 1,690 0.324 J 0.0701 J 43.7 J 0.163 J

--: 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



Parameter Nam	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose te	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					Í							<u> </u>					
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 (Fr	,	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 (D		96-12-8	-	-		-											< 0.003
1,2-Dibromoethane		106-93-4		-													< 0.001
1,2-Dichlorobenzene (o-Dichloro 1,2-Dichloroethane		95-50-1 107-06-2	1.1		1.1	100	100										< 0.001
1,2-Dichloropropane		78-87-5	0.02	10 700	0.02	2.3	3.1										< 0.001 < 0.001
1,3-Dichlorobenzene		70-07-5 541-73-1	2.4		2.4	17	49							-		-	< 0.001
1,4-Dichlorobenzene		106-46-7					13									-	
2-Butanone (Methyl ethyl ketone		78-93-3	1.8 0.3	20 100	1.8	9.8	100									-	< 0.001
2-Hexanone		70-93-3 591-78-6		100	0.12	100											0.012 J < 0.004
4-Methyl-2-pentanone		108-10-1	1	-												-	< 0.004
Acetone		67-64-1	0.05	2.2	0.05	100	100										
		71-43-2	0.05	70	0.05	2.9	4.8									-	<u>0.17</u> < 0.0006
Benzene Bromochloromethane		71-43-2 74-97-5	0.06		0.06	2.9	4.0									-	< 0.0006
Bromodichloromethane		74-97-5 75-27-4		-													
Bromoform		75-27- 4 75-25-2	-	-		-											< 0.001
Bromomethane (Methyl bromide		73-23-2 74-83-9	-			-											< 0.001 < 0.003
Carbon disulfide		74-03-9 75-15-0	2.7	-		100											< 0.003
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							-	-	-	-	-		-	< 0.001
Chloroform		67-66-3	0.37	12	0.37	10	49										< 0.003
Chloromethane (Methyl chloride)		74-87-3			0.07						-					-	< 0.003
cis-1,2-Dichloroethene		156-59-2	0.25		0.25	59	100							-			< 0.003
cis-1,3-Dichloropropene		10061-01-5															< 0.001
Cyclohexane		110-82-7															< 0.001
Dibromochloromethane		124-48-1		10													< 0.001
Dichlorodifluoromethane (Freon		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 (Dichloromet		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 (Trichloroethyler		79-01-6	0.47	2	0.47	10	21										< 0.001
Trichlorofluoromethane (Freon 1		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



Sa Parameter Name	Location ID Sample Date eld Sample ID Depth Interval mple Purpose 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 2,4-Dimethylphenol	120-83-2 105-67-9	0.4	20		100		< 0.019 < 0.019	< 0.022 < 0.022	< 0.02	< 0.022 < 0.022	< 0.02 < 0.02	< 0.019 < 0.019	< 0.021 < 0.021	< 0.021 < 0.021	< 0.02 < 0.02	< 0.023 < 0.023
2,4-Dinitrophenol	51-28-5	0.2	20		100		< 0.019	< 0.022	< 0.02 < 0.37	< 0.022	< 0.02	< 0.019	< 0.021	< 0.37	< 0.36	< 0.023
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) 2-Nitroaniline (o-Nitroaniline)	95-48-7 88-74-4	0.33	-	0.33	100	100	< 0.019	< 0.022	< 0.02	< 0.022 < 0.022	< 0.02	< 0.019	< 0.021 < 0.021	< 0.021	< 0.02	< 0.023 < 0.023
2-Nitrophenol (o-Nitrophenol)	88-74-4 88-75-5	0.4	7			-	< 0.019 < 0.019	< 0.022 < 0.022	< 0.02 < 0.02	< 0.022 < 0.022	< 0.02 < 0.02	< 0.019 < 0.019	< 0.021	< 0.021 < 0.021	< 0.02 < 0.02	< 0.023
3,3'-Dichlorobenzidine	91-94-1		-	-		-	< 0.11	< 0.13	< 0.12	< 0.022	< 0.02	< 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-Dini	,	-	-		-	-	< 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 4-Methylphenol (p-Cresol)	7005-72-3 106-44-5	0.33	-	0.33	34	100	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
4-Nitroaniline	100-44-5	0.33	-	0.33	34	100	< 0.019 < 0.075	0.055 < 0.088	< 0.02 < 0.082	0.032 J < 0.088	< 0.02 < 0.08	< 0.019 < 0.076	< 0.021 < 0.083	< 0.021 < 0.083	< 0.02 < 0.081	< 0.023 < 0.091
4-Nitrophenol	100-01-0	0.1	7		-	-	< 0.19	< 0.22	< 0.082	< 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 Benzo(a)anthracene	100-52-7 56-55-3	1	-				< 0.075 0.038	< 0.088 0.008 J	< 0.082 < 0.004	0.12 J 0.026	< 0.080 0.013 J	< 0.076 0.011 J	< 0.083 0.008 J	< 0.083 0.005 J	< 0.081 < 0.004	0.10 J 0.022 J
Benzo(a)pyrene	50-32-8	22	2.6	1	1	1	0.036	0.008 J	0.004 0.009 J	0.026 0.021 J	0.013 3	0.011 J	0.008 J	0.005 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	0.014 J	0.008 J	0.006 J	< 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 bis(2-Ethylhexyl)phthalate	108-60-1 117-81-7	435	239		50	-	< 0.019 0.11 J	< 0.022 0.12 J	< 0.02 0.23	< 0.022 < 0.088	< 0.02 < 0.08	< 0.019 < 0.076	< 0.021 < 0.083	< 0.021 < 0.083	< 0.02 < 0.081	< 0.023 < 0.091
Butylbenzylphthalate	85-68-7	122			100		< 0.075	< 0.088	< 0.082	< 0.088	< 0.08	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091
Caprolactam	105-60-2	-			_		< 0.037	< 0.044	< 0.041	< 0.044	< 0.040	< 0.038	< 0.042	< 0.042	< 0.040	< 0.045
Carbazole	86-74-8		-		-		< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
Chrysene	218-01-9	1		1	1	3.9	0.043	0.011 J	0.008 J	0.03	0.021	0.014 J	0.012 J	0.008 J	< 0.004	0.034
Di-n-butylphthalate	84-74-2	8.1	0.01		100	-	< 0.075	< 0.088	< 0.082	< 0.088	< 0.08	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091
Di-n-octylphthalate Dibenz(a,h)anthracene	117-84-0 53-70-3	120 1000		0.33	100 0.33	0.33	< 0.075 0.01 J	< 0.088	< 0.082	< 0.088 < 0.004	< 0.08	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091 < 0.005
Dibenz(a,n)anthracene Dibenzofuran	132-64-9	6.20	-	0.33	14	0.33 59	< 0.019	0.005 J < 0.022	< 0.004 < 0.02	< 0.004 < 0.022	0.005 J < 0.02	< 0.004 < 0.019	< 0.004 < 0.021	< 0.004 < 0.021	< 0.004 < 0.02	< 0.005
Diethylphthalate	84-66-2	7.1	100		100		< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
Dimethyl phthalate	131-11-3	27	200		100		< 0.075	< 0.088	< 0.082	< 0.088	< 0.08	< 0.076	< 0.083	< 0.083	< 0.081	< 0.091
Diphenyl (Biphenyl, Phenyl benzene		-	60		-		< 0.019	< 0.022	< 0.020	< 0.022	< 0.020	< 0.019	< 0.021	< 0.021	< 0.020	< 0.023
Fluoranthene	206-44-0	1000		100	100	100	0.062	0.015 J	0.009 J	0.045	0.025	0.02	0.017 J	0.011 J	< 0.004	0.056
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 Hexachlorocyclopentadiene	87-68-3 77-47-4		10				< 0.019 < 0.19	< 0.022 < 0.22	< 0.02 < 0.2	< 0.022 < 0.22	< 0.02 < 0.2	< 0.019 < 0.19	< 0.021 < 0.21	< 0.021 < 0.21	< 0.02 < 0.2	< 0.023 < 0.23
Hexachlorocycloperitadierie	67-72-1						< 0.19	< 0.22	< 0.2	< 0.22	< 0.2	< 0.038	< 0.21	< 0.042	< 0.2	< 0.23
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	0.033	0.008 J	0.008 J	0.013 J	0.015 J	0.008 J	0.006 J	< 0.004	< 0.004	0.018 J
Isophorone	78-59-1	4.4			100		< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
N-Nitrosodi-n-propylamine	621-64-7	-	-		-		< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
N-Nitrosodiphenylamine (Diphenyla			20		-		< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
Naphthalene	91-20-3	12		12	100	100	< 0.004	0.006 J	0.006 J	0.012 J	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J	0.01 J
Nitrobenzene p-Chloro-m-cresol	98-95-3 59-50-7	0.17	40		3.7	15	< 0.019	< 0.022	< 0.02	< 0.022	< 0.02	< 0.019	< 0.021	< 0.021	< 0.02	< 0.023
p-Cnioro-m-cresoi Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.019 < 0.037	< 0.022 < 0.044	< 0.02 < 0.041	< 0.022 < 0.044	< 0.02 < 0.04	< 0.019 < 0.038	< 0.021 < 0.042	< 0.021 < 0.042	< 0.02 < 0.04	< 0.023 < 0.045
Phenanthrene	85-01-8	1000		100	100	100	0.033	0.009 J	0.006 J	0.025	0.013 J	0.01 J	0.011 J	0.006 J	< 0.004	0.032
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.019	< 0.022	< 0.02	0.65	0.083	0.034 J	< 0.021	< 0.021	< 0.02	< 0.023
Pyrene	129-00-0	1000		100	100	100	0.063	0.015 J	0.009 J	0.045	0.024	0.019 J	0.018 J	0.01 J	0.005 J	0.051



Parameter Nar		arameter 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	1267	74-11-2				-											
Aroclor 1221		04-28-2				-											
Aroclor 1232		11-16-5		-		-											
Aroclor 1242		69-21-9				-											
Aroclor 1248		72-29-6				-											
Aroclor 1254		97-69-1		-			-							-			
Aroclor 1260 Aroclor 1262		96-82-5 24-23-5	-														
Aroclor 1268		00-14-4									-						
Pesticides	1110	70-14-4				-								-			
4,4-DDD	72-54	4-8	14	0.0033	0.0033	2.6	13										
4,4-DDE	72-55		17	0.0033	0.0033	1.8	8.9										
4,4-DDT	50-29		136	0.0033	0.0033	1.7	7.9										
Aldrin	309-0		0.19	0.14	0.005	0.019	0.097										
alpha BHC	319-8		0.02	0.04	0.02	0.097	0.48										
alpha Chlordane		3-71-9	2.9	1.30	0.094	0.91	4.2										
beta BHC	319-8	85-7	0.09	0.6	0.036	0.072	0.36										
delta BHC	319-8	86-8	0.25	0.04	0.04	100	100										
DIELDRIN	60-57	7-1	0.1	0.006	0.005	0.039	0.2										
Endosulfan I	959-9	98-8	102		2.4	4.8	24										
Endosulfan II	3321	13-65-9	102		2.4	4.8	24										
ENDOSULFAN SULFATE	1031	I-07-8	1000		2.4	4.8	24										
ENDRIN	72-20	0-8	0.06	0.01	0.014	2.2	11										
ENDRIN ALDEHYDE		1-93-4															
ENDRIN KETONE		94-70-5		-		-	-										
gamma BHC (Lindane)	58-89		0.1	6	0.1	0.28	1.3				-	-				-	
gamma Chlordane		3-74-2	14			0.54											
HEPTACHLOR	76-44		0.38	0.14	0.042	0.42	2.1										
HEPTACHLOR EPOXIDE		1-57-3	0.02	-		0.077								-			
METHOXYCHLOR	72-43		900	1.2		100	-										
TOXAPHENE Metals	8001	1-35-2															
Aluminum	7420	9-90-5		10000		_		17,200	17,100	16,600	12,700	15,300	14,000	18,600	18,600	16,800	16,700
Antimony)-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)-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)-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)-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)-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						_		3,340	2,480	1,790	1,600	937	765	430	439	362	1,140
	7440	0-70-2		10000				3,340	2,400	1,700	1,000				16.2	16.7	14.8
Chromium)-70-2)-47-3		10000	30	36	180	19.1	15.8	14.4	12.9	15.5	14.7	16.8	10.2		
	7440					36 30							14.7 8.78	16.8 8.94	9.22	10.5	7.93
Chromium	7440 7440)-47-3	-	-	30		180	19.1	15.8	14.4	12.9	15.5					
Chromium Cobalt Copper Iron	7440 7440 7440 7439)-47-3)-48-4)-50-8)-89-6	 1720 	 20 50 	30 50 	30 270 2000	180 270 	19.1 11.2 26.5 30,200	15.8 9.54 12 20,200	14.4 8.7 13.6 19,900	12.9 6.84 13.9 18,300	15.5 9.28 15 21,100	8.78 15.4 22,600	8.94 13.9 22,300	9.22 12.4 21,200	10.5 12.8 21,800	7.93 15.9 21,200
Chromium Cobalt Copper Iron Lead	7440 7440 7440 7439 7439	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1	 1720	 20 50	30 50	30 270	180 270	19.1 11.2 26.5 30,200 19.7	15.8 9.54 12 20,200 15.3	14.4 8.7 13.6 19,900 12.6	12.9 6.84 13.9 18,300 24.8	15.5 9.28 15 21,100 19.6	8.78 15.4 22,600 15.6	8.94 13.9 22,300 16.4	9.22 12.4 21,200 14	10.5 12.8 21,800 11.6	7.93 15.9 21,200 27.4
Chromium Cobalt Copper Iron Lead Magnesium	7440 7440 7440 7439 7439 7439	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4	 1720 450	 20 50 63	30 50 63	30 270 2000 400	180 270 400	19.1 11.2 26.5 30,200 19.7 8,020	15.8 9.54 12 20,200 15.3 4,900	14.4 8.7 13.6 19,900 12.6 4,050	12.9 6.84 13.9 18,300 24.8 3,480	15.5 9.28 15 21,100 19.6 4,200	8.78 15.4 22,600 15.6 4,080	8.94 13.9 22,300 16.4 4,030	9.22 12.4 21,200 14 3,770	10.5 12.8 21,800 11.6 3,740	7.93 15.9 21,200 27.4 3,680
Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440 7440 7440 7439 7439 7439	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4	 1720 450 2000	20 50 63 1600	30 50 63 1600	30 270 2000 400 2000	180 270 400 2000	19.1 11.2 26.5 30,200 19.7 8,020 1,010	15.8 9.54 12 20,200 15.3 4,900 889	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E	12.9 6.84 13.9 18,300 24.8 3,480 540	15.5 9.28 15 21,100 19.6 4,200 603	8.78 15.4 22,600 15.6 4,080 475	8.94 13.9 22,300 16.4 4,030 733	9.22 12.4 21,200 14 3,770 1,150 E	10.5 12.8 21,800 11.6 3,740 676	7.93 15.9 21,200 27.4 3,680 943
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440 7440 7440 7439 7439 7439 7439	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0	 1720 450 2000	 20 50 63 1600 30	30 50 63 1600 30	30 270 2000 400 2000 140	180 270 400 2000 310	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5	15.8 9.54 12 20,200 15.3 4,900 889 18.2	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6	12.9 6.84 13.9 18,300 24.8 3,480 540	15.5 9.28 15 21,100 19.6 4,200 603 19	8.78 15.4 22,600 15.6 4,080 475 20	8.94 13.9 22,300 16.4 4,030 733 20.1	9.22 12.4 21,200 14 3,770 1,150 E 19.1	10.5 12.8 21,800 11.6 3,740 676 18.8	7.93 15.9 21,200 27.4 3,680 943 17.4
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440 7440 7440 7439 7439 7439 7439 7440	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0 0-09-7	 1720 450 2000 130	 20 50 63 1600 30	30 50 63 1600 30	30 270 2000 400 2000 140	180 270 400 2000 310	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5 1,470	15.8 9.54 12 20,200 15.3 4,900 889 18.2 1,040	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6 1,060	12.9 6.84 13.9 18,300 24.8 3,480 540 18.7	15.5 9.28 15 21,100 19.6 4,200 603 19 1,210	8.78 15.4 22,600 15.6 4,080 475 20 992	8.94 13.9 22,300 16.4 4,030 733 20.1 1,200	9.22 12.4 21,200 14 3,770 1,150 E 19.1 923	10.5 12.8 21,800 11.6 3,740 676 18.8 1,100	7.93 15.9 21,200 27.4 3,680 943 17.4 1,010
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440 7440 7440 7439 7439 7439 7439 7440 7440	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0 0-09-7	 1720 450 2000 130 4	 20 50 63 1600 30 3.9	30 50 63 1600 30 3.9	30 270 2000 400 2000 140 36	180 270 400 2000 310 180	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5 1,470 0.220 J	15.8 9.54 12 20,200 15.3 4,900 889 18.2 1,040 0.350 J	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6 1,060 0.278 J	12.9 6.84 13.9 18,300 24.8 3,480 540 18.7 953 0.404 J	15.5 9.28 15 21,100 19.6 4,200 603 19 1,210 0.376 J	8.78 15.4 22,600 15.6 4,080 475 20 992 0.251 J	8.94 13.9 22,300 16.4 4,030 733 20.1 1,200 0.391 J	9.22 12.4 21,200 14 3,770 1,150 E 19.1 923 0.332 J	10.5 12.8 21,800 11.6 3,740 676 18.8 1,100 0.279 J	7.93 15.9 21,200 27.4 3,680 943 17.4 1,010
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440 7440 7440 7439 7439 7439 7439 7440 7440 7782	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0 0-09-7 2-49-2	 1720 450 2000 130 4	20 50 63 1600 30 3.9	30 50 63 1600 30 3.9	30 270 2000 400 2000 140 36	180 270 400 2000 310 180	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5 1,470 0.220 J 0.132 J	15.8 9.54 12 20,200 15.3 4,900 889 18.2 1,040 0.350 J 0.129 J	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6 1,060 0.278 J 0.105 J	12.9 6.84 13.9 18,300 24.8 3,480 540 18.7 953 0.404 J 0.0929 J	15.5 9.28 15 21,100 19.6 4,200 603 19 1,210 0.376 J 0.0740 J	8.78 15.4 22,600 15.6 4,080 475 20 992 0.251 J 0.0438 J	8.94 13.9 22,300 16.4 4,030 733 20.1 1,200 0.391 J 0.100 J	9.22 12.4 21,200 14 3,770 1,150 E 19.1 923 0.332 J 0.102 J	10.5 12.8 21,800 11.6 3,740 676 18.8 1,100 0.279 J 0.0514 J	7.93 15.9 21,200 27.4 3,680 943 17.4 1,010 0.544 J
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440 7440 7440 7439 7439 7439 7440 77440 7782 7440	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0 0-09-7 2-49-2 0-22-4 0-23-5	 1720 450 2000 130 4 8.3		30 50 63 1600 30 3.9 2	30 270 2000 400 2000 140 36 36	180 270 400 2000 310 180 180	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5 1,470 0,220 J 0,132 J 47.2 J	15.8 9.54 12 20,200 15.3 4,900 889 18.2 1,040 0.350 J 0.129 J 58.2 J	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6 1,060 0.278 J 0.105 J 42.2 J	12.9 6.84 13.9 18,300 24.8 3,480 540 18.7 953 0.404 J 0.0929 J 30.1 J	15.5 9.28 15 21,100 19.6 4,200 603 19 1,210 0.376 J 0.0740 J 35.8 J	8.78 15.4 22,600 15.6 4,080 475 20 992 0.251 J 0.0438 J 28.3 J	8.94 13.9 22,300 16.4 4,030 733 20.1 1,200 0.391 J 0.100 J 36.6 J	9.22 12.4 21,200 14 3,770 1,150 E 19.1 923 0.332 J 0.102 J 33.8 J	10.5 12.8 21,800 11.6 3,740 676 18.8 1,100 0,279 J 0,0514 J 36.3 J	7.93 15.9 21,200 27.4 3,680 943 17.4 1,010 0.544 J 0.117 J 40.2 J
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440 7440 7440 7439 7439 7439 7440 7440 7782 7440 7440	0-47-3 0-48-4 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0 0-09-7 2-49-2 0-22-4 0-23-5 0-28-0	 1720 450 2000 130 4 8.3 		30 50 63 1600 30 3.9 2 	30 270 2000 400 2000 140 36 36	180 270 400 2000 310 180 180	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5 1,470 0.220 J 0.132 J 47.2 J 0.107 J	15.8 9.54 12 20,200 15.3 4,900 889 18.2 1,040 0.350 J 0.129 J 58.2 J 0.145 J	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6 1,060 0.278 J 0.105 J 42.2 J 0.116 J	12.9 6.84 13.9 18,300 24.8 3,480 540 18.7 953 0.404 J 0.0929 J 30.1 J 0.107 J	15.5 9.28 15 21,100 19.6 4,200 603 19 1,210 0.376 J 0.0740 J 35.8 J 0.133 J	8.78 15.4 22,600 15.6 4,080 475 20 992 0.251 J 0.0438 J 28.3 J 0.0963 J	8.94 13.9 22,300 16.4 4,030 733 20.1 1,200 0.391 J 0.100 J 36.6 J 0.176 J	9.22 12.4 21,200 14 3,770 1,150 E 19.1 923 0.332 J 0.102 J 33.8 J 0.161 J	10.5 12.8 21,800 11.6 3,740 676 18.8 1,100 0.279 J 0.0514 J 36.3 J 0.163 J	7.93 15.9 21,200 27.4 3,680 943 17.4 1,010 0.544 J 0.117 J 40.2 J 0.165 J
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440 7440 7440 7439 7439 7439 7440 7440 7782 7440 7440 7440	0-47-3 0-48-4 0-50-8 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0 0-09-7 2-49-2 0-22-4 0-23-5 0-62-2	 1720 450 2000 130 4 8.3 		30 50 63 1600 30 3.9 2	30 270 2000 400 2000 140 36 36 	180 270 400 2000 310 180 180 	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5 1,470 0.220 J 0.132 J 47.2 J 0.107 J 25.5	15.8 9.54 12 20,200 15.3 4,900 889 18.2 1,040 0.350 J 0.129 J 58.2 J 0.145 J 21.7	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6 1,060 0,278 J 0,105 J 42.2 J 0,116 J 20.1	12.9 6.84 13.9 18,300 24.8 3,480 540 18.7 953 0.404 J 0.0929 J 30.1 J 0.107 J 24.6	15.5 9.28 15 21,100 19.6 4,200 603 19 1,210 0.376 J 0.0740 J 35.8 J 0.133 J 24.8	8.78 15.4 22,600 15.6 4,080 475 20 992 0.251 J 0.0438 J 28.3 J 0.0963 J 21.5	8.94 13.9 22,300 16.4 4,030 733 20.1 1,200 0.391 J 0.100 J 36.6 J 0.176 J 24.7	9.22 12.4 21,200 14 3,770 1,150 E 19.1 923 0.332 J 0.102 J 33.8 J 0.161 J 22.9	10.5 12.8 21,800 11.6 3,740 676 18.8 1,100 0.279 J 0.0514 J 36.3 J 0.163 J 24.2	7.93 15.9 21,200 27.4 3,680 943 17.4 1,010 0.544 J 0.117 J 40.2 J 0.165 J 29
Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440 7440 7440 7439 7439 7439 7439 7440 7782 7440 7440 7440 7440	0-47-3 0-48-4 0-89-6 0-92-1 0-95-4 0-96-5 0-02-0 0-09-7 2-49-2 0-22-4 0-23-5 0-28-0	 1720 450 2000 130 4 8.3 		30 50 63 1600 30 3.9 2 	30 270 2000 400 2000 140 36 36	180 270 400 2000 310 180 180	19.1 11.2 26.5 30,200 19.7 8,020 1,010 26.5 1,470 0.220 J 0.132 J 47.2 J 0.107 J	15.8 9.54 12 20,200 15.3 4,900 889 18.2 1,040 0.350 J 0.129 J 58.2 J 0.145 J	14.4 8.7 13.6 19,900 12.6 4,050 1,220 E 19.6 1,060 0.278 J 0.105 J 42.2 J 0.116 J	12.9 6.84 13.9 18,300 24.8 3,480 540 18.7 953 0.404 J 0.0929 J 30.1 J 0.107 J	15.5 9.28 15 21,100 19.6 4,200 603 19 1,210 0.376 J 0.0740 J 35.8 J 0.133 J	8.78 15.4 22,600 15.6 4,080 475 20 992 0.251 J 0.0438 J 28.3 J 0.0963 J	8.94 13.9 22,300 16.4 4,030 733 20.1 1,200 0.391 J 0.100 J 36.6 J 0.176 J	9.22 12.4 21,200 14 3,770 1,150 E 19.1 923 0.332 J 0.102 J 33.8 J 0.161 J	10.5 12.8 21,800 11.6 3,740 676 18.8 1,100 0.279 J 0.0514 J 36.3 J 0.163 J	7.93 15.9 21,200 27.4 3,680 943 17.4 1,010 0.544 J 0.117 J 40.2 J 0.165 J

--: 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



Fie	Location ID Sample Date eld Sample ID Depth Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB49 6/1/2017 OU1EESB49-S-0.50- 0.5-1	OU1EESB49 6/1/2017 OU1EESB49-S-1.00- 1-2	OU1EESB49 6/1/2017 OU1EESB49-SD-0.50- 0.5-1	OU1EESB50 5/24/2017 OU1EESB50-S-0.17- 0.17-0.5	OU1EESB50 5/24/2017 OU1EESB50-S-0.50- 0.5-1	OU1EESB50 5/24/2017 OU1EESB50-S-1.00- 1-2	OU1EESB51 5/24/2017 OU1EESB51-S-0.17- 0.17-0.5	OU1EESB51 5/24/2017 OU1EESB51-S-0.50- 0.5-1	OU1EESB51 5/24/2017 OU1EESB51-S-1.00- 1-2	OU1EESB52 5/25/2017 OU1EESB52-S-0.17 0.17-0.5
	nple Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
olatile Organic Compounds										<u> </u>	1		<u> </u>		<u> </u>	1
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
,1,2-Trichloroethane	79-00-5	-	-		-		< 0.001	< 0.001	< 0.001							< 0.002
,1,2-Trichlorotrifluoroethane (Freon	113) 76-13-1	6			100		< 0.002	< 0.002	< 0.002							< 0.003
,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
,2-Dibromo-3-chloropropane (DBCF	P) 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-Dichloroben:	zene) 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	< 0.000	< 0.001	-		-				< 0.002
Bromodichloromethane	75-27-4	-		-	_	-										< 0.002
			-	-	-		< 0.001	< 0.001	< 0.001	-						
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	< 0.002	< 0.0006	< 0.002							< 0.008
Methylcyclohexane	108-87-2						< 0.001	< 0.000	< 0.001	-		-				< 0.002
Methylene chloride (Dichloromethane		0.05	12	0.05	51	100	< 0.002	< 0.001	< 0.001	-		-				< 0.002
o-Xylene	95-47-6	0.05		0.05			< 0.002	< 0.002	< 0.002							< 0.003
· · · · · ·			200	-	-				0.004	-		-		-		
ort Amul mothyl other	100-42-5		300		-		< 0.001	< 0.001	< 0.001	-				-		< 0.002
ert-Amyl methyl ether	994-05-8	-	-	-	-	-	< 0.001	< 0.001	< 0.001							< 0.002
ertiary Butyl Alcohol	75-65-0			4.2			< 0.022	< 0.023	< 0.021							< 0.032
etrachloroethene	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001			-				< 0.002
oluene	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001							< 0.002
rans-1,2-Dichloroethene	156-60-5	0.19	-	0.19	100	100	< 0.001	< 0.001	< 0.001	-						< 0.002
ans-1,3-Dichloropropene	10061-02-6	-	-	-	-		< 0.001	< 0.001	< 0.001							< 0.002
richloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001							< 0.002
richlorofluoromethane (Freon 11)	75-69-4	-	-		-		< 0.002	< 0.002	< 0.002							< 0.003
/inyl chloride (Chloroethene)	75-01-4	0.02		0.02	0.21	0.9	< 0.001	< 0.001	< 0.001							< 0.002
ylene (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			Unrestricted		375-6.8(b) &	OU1EESB49 6/1/2017 OU1EESB49-S-0.50-	OU1EESB49 6/1/2017 OU1EESB49-S-1.00-	OU1EESB49 6/1/2017 OU1EESB49-SD-0.50-	OU1EESB50 5/24/2017 OU1EESB50-S-0.17-	OU1EESB50 5/24/2017 OU1EESB50-S-0.50-	OU1EESB50 5/24/2017 OU1EESB50-S-1.00-	OU1EESB51 5/24/2017 OU1EESB51-S-0.17-	OU1EESB51 5/24/2017 OU1EESB51-S-0.50-	OU1EESB51 5/24/2017 OU1EESB51-S-1.00-	OU1EESB52 5/25/2017 OU1EESB52-S-0.17
	Depth Interval Sample Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) & CP-51	CP-51 Residential-	0.5-1 REG	1-2 REG	0.5-1 FD	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG
Parameter Nan		CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
emivolatile Organic Compou															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
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
3,4,6-Tetrachlorophenol 4,5-Trichlorophenol	58-90-2 95-95-4	0.1		-	100		< 0.085 < 0.021	< 0.089 < 0.022	< 0.083 < 0.021	< 0.080 < 0.02	< 0.076 < 0.019	< 0.077 < 0.019	< 0.081 < 0.02	< 0.083 < 0.021	< 0.077 < 0.019	< 0.093 < 0.023
4,6-Trichlorophenol	88-06-2	0.1	10			-	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
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
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
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
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
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
Chloronaphthalene	91-58-7	-			_		< 0.009	< 0.009	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.009
Chlorophenol (o-Chloropheno			0.80		100		< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
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
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
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
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'-Dichlorobenzidine	91-94-1						< 0.13	< 0.13	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14
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
6-Dinitro-2-methylphenol (4,6-					-		< 0.21	< 0.22	< 0.21	< 0.2	< 0.19	< 0.19	< 0.2	< 0.21	< 0.19	< 0.23
-Bromophenylphenylether	101-55-3				-		< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
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
-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
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
Nitroaniline	100-01-6				-		< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
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
cenaphthene	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
cenaphthylene	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
cetophenone	98-86-2				-		< 0.021	< 0.022	< 0.021	< 0.020	< 0.019	< 0.019	< 0.020	< 0.021	< 0.019	< 0.023
nthracene	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
trazine	1912-24-9						< 0.043	< 0.045	< 0.042	< 0.040	< 0.038	< 0.038	< 0.041	< 0.041	< 0.039	< 0.047
enzaldehyde	100-52-7						< 0.085	< 0.089	< 0.083	< 0.080	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
enzo(a)anthracene	56-55-3	1		1	1	1	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	0.01 J
enzo(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	0.007 J	< 0.004	0.01 J
enzo(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	0.017 J	0.009 J	0.007 J	0.017 J
enzo(g,h,i)perylene	191-24-2	1000		100	100	100	< 0.004	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	0.007 J	0.004 J	< 0.004	0.008 J
enzo(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
s(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
is(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
is(2-chloroisopropyl) ether	108-60-1	-	-		-		< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
is(2-Ethylhexyl)phthalate	117-81-7	435	239		50		< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	0.11 J
utylbenzylphthalate	85-68-7	122			100	-	< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
aprolactam	105-60-2	-			-	-	< 0.043	< 0.045	< 0.042	< 0.040	< 0.038	< 0.038	< 0.041	< 0.041	< 0.039	< 0.047
arbazole	86-74-8						< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
hrysene	218-01-9	1		1	1	3.9	0.007 J	0.006 J	0.004 J	0.009 J	< 0.004	< 0.004	0.011 J	0.007 J	< 0.004	0.014 J
i-n-butylphthalate	84-74-2	8.1	0.01		100		< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
i-n-octylphthalate	117-84-0	120	-		100		< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
ibenz(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	< 0.004	< 0.005
benzofuran	132-64-9	6.20	400	7	14	59	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
iethylphthalate	84-66-2	7.1	100	-	100		< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
methyl phthalate	131-11-3	27	200	-	100		< 0.085	< 0.089	< 0.083	< 0.08	< 0.076	< 0.077	< 0.081	< 0.083	< 0.077	< 0.093
phenyl (Biphenyl, Phenyl benz		1000	60	100		100	< 0.021	< 0.022	< 0.021	< 0.020	< 0.019	< 0.019	< 0.020	< 0.021	< 0.019	< 0.023
uoranthene	206-44-0	1000		100	100	100	0.009 J	0.01 J	0.005 J	0.015 J	< 0.004	< 0.004	0.016 J	0.01 J	0.006 J	0.021 J
uorene	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
exachlorobenzene exachlorobutadiene	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
xachloroputadiene xachlorocyclopentadiene	87-68-3 77-47-4	-	10		-		< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
, ·	77-47-4 67-72-1	-		-	-		< 0.21	< 0.22	< 0.21	< 0.2	< 0.19	< 0.19	< 0.2	< 0.21	< 0.19	< 0.23
exachloroethane deno(1,2,3-cd)Pyrene	193-39-5			0.5	0.5		< 0.043 < 0.004	< 0.045	< 0.042	< 0.04 0.005 J	< 0.038	< 0.038	< 0.041 0.008 J	< 0.041 0.004 J	< 0.039	< 0.047 0.009 J
ophorone	193-39-5 78-59-1	8.2 4.4		0.5	100	0.5		< 0.004	< 0.004		< 0.004	< 0.004			< 0.004	
ppnorone Nitrosodi-n-propylamine	78-59-1 621-64-7						< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
,		-	20		<u>-</u>		< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
Nitrosodiphenylamine (Dipher			20			100	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
phthalene	91-20-3	12		12	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.004 J	< 0.004	0.017 J	0.01 J
trobenzene	98-95-3	0.17	40	-	3.7	15	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
Chloro-m-cresol	59-50-7						< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023
entachlorophenol	87-86-5 95-01-9	0.8	0.8	0.8	2.4	6.7	< 0.043	< 0.045	< 0.042	< 0.04	< 0.038	< 0.038	< 0.041	< 0.041	< 0.039	< 0.047
onanthrone	85-01-8	1000		100	100	100	0.005 J	0.006 J	< 0.004	0.01 J	< 0.004	< 0.004	0.012 J	0.008 J	0.005 J	0.018 J
enanthrene enol	108-95-2	0.33	30	0.33	100	100	< 0.021	< 0.022	< 0.021	< 0.02	< 0.019	< 0.019	< 0.02	< 0.021	< 0.019	< 0.023



Parameter Na	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Paramet Code	er 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		1						1	1	1	1	<u> </u>	1	1		l
Aroclor 1016	12674-11-2				-											
Aroclor 1221	11104-28-2		-	-	-											
Aroclor 1232 Aroclor 1242	11141-16-5 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 DIELDRIN	319-86-8 60-57-1	0.25 0.1	0.04	0.04 0.005	100 0.039	100 0.2		-								
Endosulfan I	959-98-8	102	0.006	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								40.000	15,300	18,900	20,000	19.900	24.600	21 700	15,100	22.900
Aluminum	7420 00 5		40000							18.900	20,000	18,800	21,600	21,700	15.100	23,800
Aluminum	7429-90-5		10000		-		9,780	16,200			0.121	0.422 1	0.472 1	0.121 1		0.272 1
Antimony	7440-36-0	-	12		-	-	< 0.122	0.120 J	0.127 J	0.129 J	0.121 J	0.133 J	0.172 J	0.121 J	< 0.0773	0.273 J
Antimony Arsenic	7440-36-0 7440-38-2	 16	12 13	 13	 16	 16	< 0.122 3.62	0.120 J 6.14	0.127 J 5.64	0.129 J 6.55	7.23	7.18	5.72	4.56	< 0.0773 5.02	6.49
Antimony	7440-36-0	-	12		-	-	< 0.122	0.120 J	0.127 J	0.129 J					< 0.0773	
Antimony Arsenic Barium	7440-36-0 7440-38-2 7440-39-3	 16 820	12 13 433	 13 350	 16 350	 16 400	< 0.122 3.62 32	0.120 J 6.14 56.2	0.127 J 5.64 50.9	0.129 J 6.55 97.7	7.23 93.1	7.18 73.7	5.72 74.4	4.56 77.1	< 0.0773 5.02 51.6	6.49 87
Antimony Arsenic Barium Beryllium	7440-36-0 7440-38-2 7440-39-3 7440-41-7	16 820 47	12 13 433 10	 13 350 7.2	 16 350 14	 16 400 72	< 0.122 3.62 32 0.414	0.120 J 6.14 56.2 0.642	0.127 J 5.64 50.9 0.717	0.129 J 6.55 97.7 0.886	7.23 93.1 0.907	7.18 73.7 0.891	5.72 74.4 0.992	4.56 77.1 1	< 0.0773 5.02 51.6 0.592	6.49 87 1.04
Antimony Arsenic Barium Beryllium Cadmium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820 47 7.50	12 13 433 10 4	 13 350 7.2 2.5	16 350 14 2.5	 16 400 72 4.3	< 0.122 3.62 32 0.414 0.0581 J	0.120 J 6.14 56.2 0.642 0.0943 J	0.127 J 5.64 50.9 0.717 0.0646 J	0.129 J 6.55 97.7 0.886 0.139 J	7.23 93.1 0.907 0.0812 J	7.18 73.7 0.891 0.0933 J	5.72 74.4 0.992 0.122 J	4.56 77.1 1 0.137 J	< 0.0773 5.02 51.6 0.592 0.0592 J	6.49 87 1.04 0.0880 J
Antimony Arsenic Barium Beryllium Cadmium Calcium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50 	12 13 433 10 4 10000	13 350 7.2 2.5	16 350 14 2.5	16 400 72 4.3	< 0.122 3.62 32 0.414 0.0581 J 230	0.120 J 6.14 56.2 0.642 0.0943 J 538	0.127 J 5.64 50.9 0.717 0.0646 J 371	0.129 J 6.55 97.7 0.886 0.139 J 981	7.23 93.1 0.907 0.0812 J 825	7.18 73.7 0.891 0.0933 J 964	5.72 74.4 0.992 0.122 J 572	4.56 77.1 1 0.137 J 397	< 0.0773 5.02 51.6 0.592 0.0592 J 373	6.49 87 1.04 0.0880 J 383
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-2 7440-47-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50 	12 13 433 10 4 10000	13 350 7.2 2.5	 16 350 14 2.5 36 30 270	 16 400 72 4.3 180	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6	4.56 77.1 1 0.137 J 397 21.8 11.7	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5	6.49 87 1.04 0.0880 J 383 24 14.8
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000	 16 400 72 4.3 180 270	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000 400	 16 400 72 4.3 180 270 400	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000 400	 16 400 72 4.3 180 270 400	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	 16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600	 13 350 7.2 2.5 30 50 63 1600	 16 350 14 2.5 36 30 270 2000 400 2000	 16 400 72 4.3 180 270 400 2000	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	 16 400 72 4.3 180 270 400 2000 310	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480 670	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797 16.6	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700 1,030 26.8	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835 30.8	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887 28.1	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994 23.8	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825 23.2	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514 20.9	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989 30.1
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	 16 400 72 4.3 180 270 400 2000 310	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454 10.2 671	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480 670 19.3	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797 16.6 846	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700 1,030 26.8 1,700	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835 30.8 2,340	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887 28.1 2,320	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994 23.8 1,490	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825 23.2 1,560	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514 20.9 1,260	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989 30.1 1,770
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	 16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310 180	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454 10.2 671 0.180 J	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480 670 19.3 1,190 0.259 J	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797 16.6 846 0.284 J	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700 1,030 26.8 1,700 0.365 J	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835 30.8 2,340 0.257 J	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887 28.1 2,320 0.238 J	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994 23.8 1,490 0.433 J	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825 23.2 1,560 0.317 J	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514 20.9 1,260 0.259 J	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989 30.1 1,770 0.549 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-95-5 7440-02-0 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	 16 400 72 4.3 180 270 400 2000 310	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454 10.2 671 0.180 J 0.0363 J	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480 670 19.3 1,190 0.259 J 0.0354 J	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797 16.6 846 0.284 J 0.0533 J	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700 1,030 26.8 1,700 0.365 J 0.0273 J	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835 30.8 2,340 0.257 J < 0.0181	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887 28.1 2,320 0.238 J < 0.0242	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994 23.8 1,490 0.433 J 0.0588 J	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825 23.2 1,560 0.317 J 0.0496 J	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514 20.9 1,260 0.259 J 0.0189 J	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989 30.1 1,770 0.549 J 0.0580 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9	 13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454 10.2 671 0.180 J 0.0363 J 26.6 J	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480 670 19.3 1,190 0.259 J 0.0354 J 35.4 J	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797 16.6 846 0.284 J 0.0533 J 30.3 J	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700 1,030 26.8 1,700 0.365 J 0.0273 J 51.8 J	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835 30.8 2,340 0.257 J < 0.0181 53.5 J	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887 28.1 2,320 0.238 J < 0.0242 54.7 J	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994 23.8 1,490 0.433 J 0.0588 J 43.8 J	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825 23.2 1,560 0.317 J 0.0496 J 43.1 J	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514 20.9 1,260 0.259 J 0.0189 J 32.6 J	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989 30.1 1,770 0.549 J 0.0580 J 50.2 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454 10.2 671 0.180 J 0.0363 J	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480 670 19.3 1,190 0.259 J 0.0354 J	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797 16.6 846 0.284 J 0.0533 J	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700 1,030 26.8 1,700 0.365 J 0.0273 J	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835 30.8 2,340 0.257 J < 0.0181	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887 28.1 2,320 0.238 J < 0.0242	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994 23.8 1,490 0.433 J 0.0588 J	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825 23.2 1,560 0.317 J 0.0496 J	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514 20.9 1,260 0.259 J 0.0189 J	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989 30.1 1,770 0.549 J 0.0580 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-99-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	 13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	< 0.122 3.62 32 0.414 0.0581 J 230 8.85 4.65 8.03 13,800 6.81 2,350 454 10.2 671 0.180 J 0.0363 J 26.6 J 0.0772 J	0.120 J 6.14 56.2 0.642 0.0943 J 538 16.4 9.47 17.4 26,300 14.1 4,480 670 19.3 1,190 0.259 J 0.0354 J 35.4 J 0.120 J	0.127 J 5.64 50.9 0.717 0.0646 J 371 14.2 8.31 13.2 22,200 11.4 3,740 797 16.6 846 0.284 J 0.0533 J 30.3 J 0.102 J	0.129 J 6.55 97.7 0.886 0.139 J 981 21.7 15.4 23.4 29,600 19.6 5,700 1,030 26.8 1,700 0.365 J 0.0273 J 51.8 J 0.157 J	7.23 93.1 0.907 0.0812 J 825 23.8 15.7 30.1 33,200 14.6 6,320 835 30.8 2,340 0.257 J < 0.0181 53.5 J 0.124 J	7.18 73.7 0.891 0.0933 J 964 21.2 14.6 28.9 31,300 17.2 6,010 887 28.1 2,320 0.238 J < 0.0242 54.7 J 0.113 J	5.72 74.4 0.992 0.122 J 572 21.1 11.6 17.6 26,200 21.9 5,050 994 23.8 1,490 0.433 J 0.0588 J 43.8 J 0.181 J	4.56 77.1 1 0.137 J 397 21.8 11.7 16.1 25,700 14.2 4,890 825 23.2 1,560 0.317 J 0.0496 J 43.1 J 0.195 J	< 0.0773 5.02 51.6 0.592 0.0592 J 373 17.2 11.5 18.7 23,900 12.9 4,640 514 20.9 1,260 0.259 J 0.0189 J 32.6 J 0.102 J	6.49 87 1.04 0.0880 J 383 24 14.8 23.7 32,200 23.5 6,020 989 30.1 1,770 0.549 J 0.0580 J 50.2 J 0.210 J

--: 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



Sai	ocation ID nple Date Sample ID			Unrestricted		375-6.8(b) &	OU1EESB52 5/25/2017 OU1EESB52-S-0.50-	OU1EESB52 5/25/2017 OU1EESB52-S-1.00-	OU1EESB53 5/25/2017 OU1EESB53-S-0.17-	OU1EESB53 5/25/2017 OU1EESB53-S-0.50-	OU1EESB53 5/25/2017 OU1EESB53-S-1.00-	OU1EESB54 5/25/2017 OU1EESB54-S-0.17-	OU1EESB54 5/25/2017 OU1EESB54-S-0.50-	OU1EESB54 5/25/2017 OU1EESB54-S-1.00-	OU1EESB55 5/26/2017 OU1EESB55-S-0.17-	OU1EESB55 5/26/2017 OU1EESB55-S-0.50-
	h Interval	275 C 0/5) 9	275 C 0/5) 8	Use Soil	375-6.8(b) &	CP-51 Residential-	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG
Parameter Name	Purpose Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Restricted	KLG	REG	REG	KLG	REG	REG	REG	KEG	KLG	REG
Volatile Organic Compounds		1 0. 000	0. 0	0.0,0000	1100100111101	1100101.00	'		<u> </u>	<u> </u>			<u> </u>			
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		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	<u></u>	< 0.003	< 0.002					
1,2-Dibromoethane	106-93-4	-	-				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001					
1,2-Dichlorobenzene (o-Dichlorobenzen		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	0.02	700			J.1 	< 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	0.001 0.007 J	< 0.001	0.005 J	0.006 J	< 0.001		-			
2-Hexanone (wetnyl etnyl ketone)	78-93-3 591-78-6	0.3	100	0.12	100	100	< 0.007 J	< 0.005	< 0.005 J	< 0.006 J < 0.004	< 0.004					
	108-10-1	1														
4-Methyl-2-pentanone		•					< 0.004	< 0.003	< 0.003	< 0.004	< 0.003					
Acetone	67-64-1	0.05	2.2	0.05	100	100	<u>0.17</u>	<u>0.071</u>	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					
rans-1,3-Dichloropropene	10061-02-6	0.19	-	0.19			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001					
Trichloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21										
	75-69-4						< 0.001	< 0.001	< 0.001	< 0.001	< 0.001					
Trichlorofluoromethane (Freon 11)			-				< 0.002	< 0.002	< 0.002	< 0.003	< 0.002					
Vilone (total)	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			Unrectricted		375-6.8(b) &	OU1EESB52 5/25/2017 OU1EESB52-S-0.50-	OU1EESB52 5/25/2017 OU1EESB52-S-1.00-	OU1EESB53 5/25/2017 OU1EESB53-S-0.17-	OU1EESB53 5/25/2017	OU1EESB53 5/25/2017 OU1EESB53-S-1.00-	OU1EESB54 5/25/2017 OU1EESB54-S-0.17-	OU1EESB54 5/25/2017 OU1EESB54-S-0.50-	OU1EESB54 5/25/2017 OU1EESB54-S-1.00-	OU1EESB55 5/26/2017 OU1EESB55-S-0.17-	OU1EESB55 5/26/2017 OU1EESB55-S-0.50-
I	eld Sample ID Depth Interval			Unrestricted Use Soil	375-6.8(b) &	CP-51	0.5-1	1-2	0.17-0.5	OU1EESB53-S-0.50- 0.5-1	1-2	0.17-0.5	0.5-1	1-2	0.17-0.5	0.5-1
Saı Parameter Name	mple Purpose Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
mivolatile Organic Compounds		0.0	0. 0	Cojecuites	- Hooraomia	11001110100										
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
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
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
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
4,6-Trichlorophenol 4-Dichlorophenol	88-06-2 120-83-2	0.4	10 20	-	100		< 0.02 < 0.02	< 0.019 < 0.019	< 0.021 < 0.021	< 0.023 < 0.023	< 0.019 < 0.019	< 0.024 < 0.024	< 0.019 < 0.019	< 0.019 < 0.019	< 0.022 < 0.022	< 0.021 < 0.021
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
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
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
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
Chloronaphthalene	91-58-7	-	-		-		< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.009	< 0.008	< 0.008	< 0.009	< 0.009
Chlorophenol (o-Chlorophenol) Methyl-Naphthalene	95-57-8 91-57-6	36.4	0.80	-	100 0.41	-	< 0.02 < 0.004	< 0.019 < 0.004	< 0.021	< 0.023 < 0.004	< 0.019 < 0.004	< 0.024	< 0.019 < 0.004	< 0.019 < 0.004	< 0.022 < 0.004	< 0.021 < 0.004
Methylphenol (o-Cresol)	95-48-7	0.33	-	0.33	100	100	< 0.004	< 0.004	< 0.004 < 0.021	< 0.004	< 0.004	< 0.005 < 0.024	< 0.004	< 0.004	< 0.004	< 0.004
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
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
'-Dichlorobenzidine	91-94-1		-		-		< 0.12	< 0.11	< 0.13	< 0.14	< 0.12	< 0.14	< 0.12	< 0.11	< 0.13	< 0.13
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
6-Dinitro-2-methylphenol (4,6-Dinit	· · · · · · · · · · · · · · · · · · ·	-	-		-		< 0.2	< 0.19	< 0.21	< 0.23	< 0.19	< 0.24	< 0.19	< 0.19	< 0.22	< 0.21
Bromophenylphenylether	101-55-3		-	-	100		< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
Chloroaniline Chlorophenyl phenyl ether	106-47-8 7005-72-3	0.22			100		< 0.04 < 0.02	< 0.038 < 0.019	< 0.042 < 0.021	< 0.045 < 0.023	< 0.038 < 0.019	< 0.047 < 0.024	< 0.039 < 0.019	< 0.038 < 0.019	< 0.044 < 0.022	< 0.043 < 0.021
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
Nitroaniline	100-01-6	-	-		_		< 0.079	< 0.075	< 0.084	< 0.09	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
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
enaphthene	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
enaphthylene	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
etophenone	98-86-2	-	-				< 0.020	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
rhracene azine	120-12-7	1000	-	100	100	100	< 0.004 < 0.040	< 0.004 < 0.038	< 0.004	< 0.004 < 0.045	< 0.004 < 0.038	< 0.005 < 0.047	< 0.004 < 0.039	< 0.004	< 0.004	< 0.004 < 0.043
nzaldehyde	1912-24-9 100-52-7		-	-			< 0.040	< 0.038	< 0.042 < 0.084	< 0.045	< 0.038	< 0.047	< 0.039	< 0.038 < 0.076	< 0.044 < 0.089	< 0.043
enzo(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
nzo(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
nzo(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
nzo(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
nzo(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
(2-Chloroethoxy)methane (2-Chloroethyl) ether	111-91-1 111-44-4		-		-		< 0.02 < 0.02	< 0.019 < 0.019	< 0.021 < 0.021	< 0.023 < 0.023	< 0.019 < 0.019	< 0.024 < 0.024	< 0.019 < 0.019	< 0.019 < 0.019	< 0.022 < 0.022	< 0.021 < 0.021
(2-chloroisopropyl) ether	108-60-1		-		-		< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
(2-Ethylhexyl)phthalate	117-81-7	435	239		50		< 0.079	0.078 J	< 0.084	< 0.09	0.078 J	0.17 J	< 0.078	< 0.076	< 0.089	< 0.086
itylbenzylphthalate	85-68-7	122			100		< 0.079	< 0.075	< 0.084	< 0.09	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
aprolactam	105-60-2		-		-		< 0.040	< 0.038	< 0.042	< 0.045	< 0.038	< 0.047	< 0.039	< 0.038	< 0.044	< 0.043
rbazole	86-74-8	-	-		-		< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
rysene	218-01-9	1	-	1	1	3.9	< 0.004	< 0.004	0.013 J	0.005 J	< 0.004	0.011 J	< 0.004	< 0.004	0.011 J	< 0.004
-n-butylphthalate -n-octylphthalate	84-74-2 117-84-0	8.1 120	0.01	-	100 100	-	< 0.079 < 0.079	< 0.075 < 0.075	< 0.084 < 0.084	< 0.09 < 0.09	< 0.077 < 0.077	< 0.094	< 0.078 < 0.078	< 0.076 < 0.076	< 0.089 < 0.089	< 0.086 < 0.086
enz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.079	< 0.075	< 0.084	< 0.09	< 0.004	< 0.094 < 0.005	< 0.078	< 0.076	< 0.089	< 0.086
penzofuran	132-64-9	6.20	-	7	14	59	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
thylphthalate	84-66-2	7.1	100	-	100		< 0.079	< 0.075	< 0.084	< 0.09	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
nethyl phthalate	131-11-3	27	200		100		< 0.079	< 0.075	< 0.084	< 0.09	< 0.077	< 0.094	< 0.078	< 0.076	< 0.089	< 0.086
henyl (Biphenyl, Phenyl benzene			60		-		< 0.020	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
ioranthene	206-44-0	1000		100	100	100	< 0.004	< 0.004	0.017 J	0.008 J	< 0.004	0.019 J	< 0.004	< 0.004	0.017 J	< 0.004
orene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004
xachlorobenzene xachlorobutadiene	118-74-1 87-68-3	1.4	-	0.33	0.33	1.2	< 0.004 < 0.02	< 0.004 < 0.019	< 0.004 < 0.021	< 0.004 < 0.023	< 0.004 < 0.019	< 0.005 < 0.024	< 0.004 < 0.019	< 0.004 < 0.019	< 0.004 < 0.022	< 0.004 < 0.021
xachlorocyclopentadiene	77-47-4		10			-	< 0.02	< 0.19	< 0.21	< 0.23	< 0.19	< 0.24	< 0.19	< 0.19	< 0.22	< 0.21
xachloroethane	67-72-1	-	-		_		< 0.04	< 0.038	< 0.042	< 0.045	< 0.038	< 0.047	< 0.039	< 0.038	< 0.044	< 0.043
eno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	< 0.004	< 0.004	0.008 J	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	0.006 J	< 0.004
phorone	78-59-1	4.4			100		< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
Nitrosodi-n-propylamine	621-64-7				-		< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
Nitrosodiphenylamine (Diphenylar	· ·		20				< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
robonzono	91-20-3	12		12	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004
robenzene Chloro-m-cresol	98-95-3 59-50-7	0.17	40		3.7	15	< 0.02 < 0.02	< 0.019 < 0.019	< 0.021 < 0.021	< 0.023 < 0.023	< 0.019 < 0.019	< 0.024 < 0.024	< 0.019 < 0.019	< 0.019 < 0.019	< 0.022 < 0.022	< 0.021 < 0.021
entachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
enanthrene	85-01-8	1000		100	100	100	< 0.004	< 0.004	0.01 J	0.005 J	< 0.004	0.011 J	< 0.004	< 0.004	0.01 J	< 0.004
enol	108-95-2	0.33	30	0.33	100	100	< 0.02	< 0.019	< 0.021	< 0.023	< 0.019	< 0.024	< 0.019	< 0.019	< 0.022	< 0.021
rene	129-00-0	1000	-	100	100	100	< 0.004	< 0.004	0.02 J	0.008 J	0.005 J	0.019 J	< 0.004	< 0.004	0.016 J	< 0.004



Parameter Nan	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose me	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	1	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 Aroclor 1262		11096-82-5 37324-23-5	-		-												
Aroclor 1268		11100-14-4							-								
Pesticides		11100 14 4															
4,4-DDD	7	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	3	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 ENDOSULFAN SULFATE		33213-65-9	102	-	2.4	4.8	24										
ENDRIN SOLFATE		1031-07-8 72-20-8	1000 0.06	0.01	2.4 0.014	4.8 2.2	24 11										
ENDRIN ALDEHYDE		7421-93-4			0.014												
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	1	1024-57-3	0.02			0.077											
METHOXYCHLOR	7	72-43-5	900	1.2		100											
TOXAPHENE	8	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 Beryllium		7440-39-3	820	433 10	350	350	400	62.4	51.1	82.5	114	94.4	101	83	77.7	87 1.04	92.4
Cadmium		7440-41-7 7440-43-9	47 7.50	4	7.2 2.5	14 2.5	72 4.3	0.784 0.0501 J	0.645 0.0475 J	0.727 0.118 J	1.06 0.0811 J	1.08 0.0915 J	1.15 0.0581 J	0.846 0.0722 J	0.902 0.0866 J	0.0976 J	1.04 0.0776 J
Calcium		7440-43-9 7440-70-2	7.50	10000	2.5	2.3	4.3	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	7	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
		7439-96-5	2000	1600	1600	2000	2000	704	609	532	732	941	1,000	631	729	1,000	680
Manganese	- I	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
Nickel								1,380	1,540	1,790	2,650	3,070	2,550	2,480	2,920	2,320	2,720
Nickel Potassium	7	7440-09-7	-			_			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
Nickel Potassium Selenium	7 7	7782-49-2	4	3.9	3.9	36	180	0.322 J									
Nickel Potassium Selenium Silver	7 7 7	7782-49-2 7440-22-4	4 8.3	3.9 2	3.9 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
Nickel Potassium Selenium Silver Sodium	7 7 7 7	7782-49-2 7440-22-4 7440-23-5	4 8.3 	3.9 2 	3.9 2 	36	180 	0.0375 J 31.2 J	< 0.0268 34.5 J	0.0509 J 64.9 J	0.0346 J 90.3 J	0.0295 J 76.2 J	0.0557 J 67.5 J	< 0.0259 62.1 J	< 0.0206 64.8 J	0.0604 J 51.7 J	50.5 J
Nickel Potassium Selenium Silver Sodium Thallium	7 7 7 7	7782-49-2 7440-22-4 7440-23-5 7440-28-0	4 8.3 	3.9 2 5	3.9 2 	36 	180 	0.0375 J 31.2 J 0.128 J	< 0.0268 34.5 J 0.122 J	0.0509 J 64.9 J 0.164 J	0.0346 J 90.3 J 0.230 J	0.0295 J 76.2 J 0.134 J	0.0557 J 67.5 J 0.202 J	< 0.0259 62.1 J 0.168 J	< 0.0206 64.8 J 0.127 J	0.0604 J 51.7 J 0.191 J	50.5 J 0.127 J
Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7 7 7 7 7	7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	8.3 	3.9 2 5 39	3.9 2 	36 100	180 	0.0375 J 31.2 J 0.128 J 24.5	< 0.0268 34.5 J 0.122 J 22.5	0.0509 J 64.9 J 0.164 J 31.6	0.0346 J 90.3 J 0.230 J 41.8	0.0295 J 76.2 J 0.134 J 36.4	0.0557 J 67.5 J 0.202 J 39.9	< 0.0259 62.1 J 0.168 J 31.6	< 0.0206 64.8 J 0.127 J 31.4	0.0604 J 51.7 J 0.191 J 38.2	50.5 J 0.127 J 34.4
Nickel Potassium Selenium Silver Sodium Thallium	7 7 7 7 7 7	7782-49-2 7440-22-4 7440-23-5 7440-28-0	4 8.3 	3.9 2 5	3.9 2 	36 	180 	0.0375 J 31.2 J 0.128 J	< 0.0268 34.5 J 0.122 J	0.0509 J 64.9 J 0.164 J	0.0346 J 90.3 J 0.230 J	0.0295 J 76.2 J 0.134 J	0.0557 J 67.5 J 0.202 J	< 0.0259 62.1 J 0.168 J	< 0.0206 64.8 J 0.127 J	0.0604 J 51.7 J 0.191 J	50.5 J 0.127 J

--: 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



	Sample Date Field Sample ID Depth Interval Sample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	375-6.8(b) & CP-51 Residential-	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
Parameter Nam	me	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
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 (Fr	reon 113) 7	76-13-1	6			100											
1,1-Dichloroethane		75-34-3	0.27		0.27	19	26										
1,2,3-Trichlorobenzene	8	87-61-6	-	20		-	-										
1,2,4-Trichlorobenzene		120-82-1	3.4	20		-	-										
1,2-Dibromo-3-chloropropane (D	DBCP)	96-12-8	-			-											
1,2-Dibromoethane	1	106-93-4				-											
1,2-Dichlorobenzene (o-Dichloro	obenzene) 9	95-50-1	1.1		1.1	100	100										
1,2-Dichloroethane	1	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	-		_											
		67-64-1					100										
Acetone			0.05	2.2	0.05	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	Į.	56-23-5	0.76		0.76	1.4	2.4										
Chlorobenzene	1	108-90-7	1.1	40	1.1	100	100										
Chloroethane	7	75-00-3	1.9			-											
Chloroform	(67-66-3	0.37	12	0.37	10	49										
Chloromethane (Methyl chloride)	e) 7	74-87-3				-											
cis-1,2-Dichloroethene	1	156-59-2	0.25		0.25	59	100										
cis-1,3-Dichloropropene	1	10061-01-5	-	-		_	-										
Cyclohexane	1	110-82-7				-											
Dibromochloromethane		124-48-1		10				<u></u>								<u></u>	
Dichlorodifluoromethane (Freon		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	41							-			
m,p-Xylenes		XYLENES-MP	2.3		-												
							-										
Methyl acetate		79-20-9		-			400										
Methyl-t-butyl ether		1634-04-4	0.93	-	0.93	62	100										
Methylcyclohexane		108-87-2				-											
Methylene chloride (Dichloromet		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	1	75-65-0				-											
Tetrachloroethene	1	127-18-4	1.3	2	1.3	5.5	19										
Toluene	1	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 (Trichloroethyler		79-01-6	0.47	2	0.47	10	21				-						
Trichlorofluoromethane (Freon 1		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	0.02	100	100										



	Location ID Sample Date Field Sample ID			Unrestricted		375-6.8(b) &	OU1EESB55 5/26/2017 OU1EESB55-S-1.00-	OU1EESB56 5/26/2017 OU1EESB56-S-0.17-	OU1EESB56 5/26/2017 OU1EESB56-S-0.50-	OU1EESB56 5/26/2017 OU1EESB56-S-1.00-	OU1EESB57 5/30/2017 OU1EESB57-S-0.17-	OU1EESB57 5/30/2017 OU1EESB57-S-0.50-	OU1EESB57 5/30/2017 OU1EESB57-S-1.00-	OU1EESB58 5/26/2017 OU1EESB58-S-0.17-	OU1EESB58 5/26/2017 OU1EESB58-S-0.50-	OU1EESB58 5/26/2017 OU1EESB58-S-1.00-
	Depth Interval Sample Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) & CP-51	CP-51 Residential-	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG
Parameter Nam Semivolatile Organic Compoun		CP-51 POG	CP-51 PER	Objectives	Residential	Restricted					<u> </u>					ļ
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	< 0.025	< 0.022	< 0.13	< 0.11	< 0.13	< 0.14	< 0.14	< 0.13
2,3,4,6-Tetrachlorophenol	58-90-2				9.0 		< 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
,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
,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
,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
,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
-Chlorophenol (o-Chlorophenol			0.80		100		< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
-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 1,6-Dinitro-2-methylphenol (4,6-D	99-09-2 Dinitro-o-cresol) 534-52-1	0.5	-	-	-	-	< 0.076 < 0.19	< 0.088 < 0.22	< 0.099 < 0.25	< 0.086 < 0.21	< 0.084 < 0.21	< 0.076 < 0.19	< 0.084 < 0.21	< 0.094 < 0.24	< 0.093 < 0.23	< 0.089 < 0.22
l-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		< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
1-Chlorophenyl phenyl ether	7005-72-3					-	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.042	< 0.024	< 0.023	< 0.043
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
1-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	0.008 J	0.018 J	< 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
pis(2-Chloroethoxy)methane	111-91-1 111-44-4	-	-		-	-	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
bis(2-Chloroethyl) ether bis(2-chloroisopropyl) ether	108-60-1	-	-		-		< 0.019 < 0.019	< 0.022 < 0.022	< 0.025 < 0.025	< 0.022 < 0.022	< 0.021 < 0.021	< 0.019	< 0.021 < 0.021	< 0.024 < 0.024	< 0.023 < 0.023	< 0.022 < 0.022
bis(2-Ethylhexyl)phthalate	117-81-7	435	239		50		< 0.076	< 0.022	< 0.025	0.022 0.091 J	< 0.021	< 0.019 < 0.076	< 0.021	< 0.024	< 0.023	< 0.022
Butylbenzylphthalate	85-68-7	122	239		100	-	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
Caprolactam	105-60-2		-				< 0.038	< 0.044	< 0.050	< 0.043	< 0.042	< 0.038	< 0.042	< 0.047	< 0.046	< 0.045
Carbazole	86-74-8				_		< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
Chrysene	218-01-9	1		1	1	3.9	< 0.004	0.011 J	< 0.005	0.007 J	0.012 J	0.005 J	0.008 J	0.023 J	< 0.005	< 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01		100	-	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
Di-n-octylphthalate	117-84-0	120			100		< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
Dibenz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004
Dibenzofuran	132-64-9	6.20	-	7	14	59	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
Diethylphthalate	84-66-2	7.1	100		100	-	< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
Dimethyl phthalate	131-11-3	27	200		100		< 0.076	< 0.088	< 0.099	< 0.086	< 0.084	< 0.076	< 0.084	< 0.094	< 0.093	< 0.089
Diphenyl (Biphenyl, Phenyl benz			60		-		< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
Fluoranthene	206-44-0	1000	-	100	100	100	< 0.004	0.016 J	0.006 J	0.011 J	0.018 J	< 0.004	0.01 J	0.038	< 0.005	< 0.004
luorene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004
Hexachlorobenzene	118-74-1	1.4	-	0.33	0.33	1.2	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004
Hexachlorobutadiene	87-68-3	-			-		< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
lexachlorocyclopentadiene	77-47-4	-	10		-		< 0.19	< 0.22	< 0.25	< 0.21	< 0.21	< 0.19	< 0.21	< 0.24	< 0.23	< 0.22
exachloroethane	67-72-1						< 0.038	< 0.044	< 0.05	< 0.043	< 0.042	< 0.038	< 0.042	< 0.047	< 0.046	< 0.045
ndeno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	< 0.004	0.005 J	< 0.005	0.005 J	0.007 J	< 0.004	0.005 J	0.014 J	< 0.005	< 0.004
sophorone	78-59-1	4.4	-		100	-	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
I-Nitrosodi-n-propylamine	621-64-7	-		-	-	-	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
I-Nitrosodiphenylamine (Diphen			20		400	400	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
laphthalene	91-20-3	12		12	100	100	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.005	< 0.004
Chloro m crosol	98-95-3	0.17	40		3.7	15	< 0.019	< 0.022	< 0.025	< 0.022	< 0.021	< 0.019	< 0.021	< 0.024	< 0.023	< 0.022
-Chloro-m-cresol Pentachlorophenol	59-50-7 87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.019 < 0.038	< 0.022 < 0.044	< 0.025 < 0.05	< 0.022 < 0.043	< 0.021 < 0.042	< 0.019 < 0.038	< 0.021 < 0.042	< 0.024 < 0.047	< 0.023 < 0.046	< 0.022 < 0.045
Phenanthrene	87-86-5 85-01-8	1000	U.6	100	100	100	< 0.038	< 0.044 0.009 J	< 0.05 < 0.005	< 0.043 0.005 J	< 0.042 0.011 J	< 0.038	< 0.042 0.005 J	< 0.047 0.022 J	< 0.046	< 0.045
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.004	< 0.022	< 0.005	< 0.022	< 0.021	< 0.004	< 0.021	< 0.024	< 0.005	< 0.004
Pyrene	129-00-0	1000		100	100	100	< 0.004	0.017 J	0.006 J	0.01 J	0.017 J	0.005 J	0.011 J	0.036	0.005 J	< 0.004



Parameter Nan	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose me	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	1:	2674-11-2				-											
Aroclor 1221	1	1104-28-2				-											
Aroclor 1232	1	1141-16-5															
Aroclor 1242	5	3469-21-9				-											
Aroclor 1248	1:	2672-29-6	-			-											
Aroclor 1254		1097-69-1				-											
Aroclor 1260		1096-82-5				-											
Aroclor 1262		7324-23-5	-			-											
Aroclor 1268	1	1100-14-4				-											
Pesticides													1	1	<u> </u>	_	
4,4-DDD		2-54-8	14	0.0033	0.0033	2.6	13										
4,4-DDE		2-55-9	17	0.0033	0.0033	1.8	8.9										
4,4-DDT		0-29-3	136	0.0033	0.0033	1.7	7.9										
Aldrin		09-00-2	0.19	0.14	0.005	0.019	0.097										
alpha BHC		119-84-6	0.02	0.04	0.02	0.097	0.48										
alpha Chlordane		103-71-9	2.9	1.30	0.094	0.91	4.2										
beta BHC		19-85-7	0.09	0.6	0.036	0.072	0.36				-						
delta BHC DIELDRIN		19-86-8	0.25	0.04	0.04	100	100										
Endosulfan I		60-57-1 159-98-8	0.1	0.006	0.005	0.039 4.8	0.2 24										
Endosulfan II		3213-65-9	102		2.4												
ENDOSULFAN SULFATE		031-07-8	102 1000		2.4	4.8	24 24										
ENDRIN		2-20-8	0.06	0.01	0.014	2.2	11							-			
ENDRIN ALDEHYDE		421-93-4			0.014				-								
ENDRIN KETONE		3494-70-5									-						
gamma BHC (Lindane)		i8-89-9	0.1	6	0.1	0.28	1.3										
gamma Chlordane		103-74-2	14			0.54											
HEPTACHLOR		6-44-8	0.38	0.14	0.042	0.42	2.1										
HEPTACHLOR EPOXIDE		024-57-3	0.02			0.077											
METHOXYCHLOR		2-43-5	900	1.2		100								<u>-</u>			
TOXAPHENE		001-35-2	-			-											
Metals																	
Aluminum	7-	429-90-5		10000				20,900	23,000	25,700	21,300	24,400	20,800	19,900	23,200	24,300	20,200
Antimony	7-	440-36-0		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	7-	440-38-2	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	7-	440-39-3	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	7-	440-41-7	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	7-	440-43-9	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	7-	440-70-2		10000				445	668	520	730	373	173	343	351	314	145
Chromium		440-47-3	-		30	36	180	24.4	33.6	32.2	25.5	23.3	22.5	21.9	23.7	26.1	23
Cobalt		440-48-4	-	20		30		14	12.3	13.4	13.9	13.3	12.8	14.6	11.9	13.9	12.6
Copper		440-50-8	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		439-89-6	-	-		2000		37,700	34,800	41,800	33,500	30,700	33,200	30,500	29,400	32,800	34,700
Lead		439-92-1	450	63	63	400	400	16	22.1	18.3	16.9	21.3	16.2	16.3	26.6	16.7	14.9
	7	439-95-4				-		6,720	6,810	8,770	6,630	5,870	6,360	5,840	5,670	6,600	6,730
Magnesium				1600	1600	2000	2000	710	1,060 E	1,030	747	685	571	587	757	761	597
Magnesium Manganese	7-	439-96-5	2000				_			24.2	29.3	27.4	27.4	26.4	26.8	29.7	27.6
Magnesium Manganese Nickel	75 76	440-02-0	130	30	30	140	310	28.7	29.6	31.2							1,900
Magnesium Manganese Nickel Potassium	7. 7. 7.	'440-02-0 '440-09-7	130	30	30	-		2,250	1,700	2,030	2,330	1,960	2,000	2,250	2,090	2,390	
Magnesium Manganese Nickel Potassium Selenium	7. 7. 7. 7	7440-02-0 7440-09-7 7782-49-2	130 4	30 3.9	30 3.9	 36	 180	2,250 0.236 J	1,700 0.400 J	2,030 0.393 J	2,330 0.295 J	0.426 J	0.211 J	0.215 J	2,090 0.508 J	0.396 J	0.318 J
Magnesium Manganese Nickel Potassium Selenium Silver	7. 7. 7. 7. 7.	7440-02-0 7440-09-7 7782-49-2 7440-22-4	130 4 8.3	30 3.9 2	30 3.9 2	 36 36	 180 180	2,250 0.236 J < 0.0191	1,700 0.400 J 0.0511 J	2,030 0.393 J 0.0394 J	2,330 0.295 J 0.0278 J	0.426 J 0.0571 J	0.211 J 0.0244 J	0.215 J < 0.0296	2,090 0.508 J 0.0758 J	0.396 J 0.0396 J	0.318 J < 0.0280
Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7. 7. 7. 7. 7.	7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	130 4 8.3 	30 3.9 2	30 3.9 2 	 36 36 	180 180 	2,250 0.236 J < 0.0191 52.3 J	1,700 0.400 J 0.0511 J 59.5 J	2,030 0.393 J 0.0394 J 69.4 J	2,330 0.295 J 0.0278 J 76.4 J	0.426 J 0.0571 J 49.4 J	0.211 J 0.0244 J 37.4 J	0.215 J < 0.0296 45.8 J	2,090 0.508 J 0.0758 J 53.5 J	0.396 J 0.0396 J 52.1 J	0.318 J < 0.0280 40.7 J
Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7. 7. 7. 7. 7. 7.	7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	130 4 8.3 	30 3.9 2 5	30 3.9 2 	 36 36 	 180 180 	2,250 0.236 J < 0.0191 52.3 J 0.124 J	1,700 0.400 J 0.0511 J 59.5 J 0.153 J	2,030 0.393 J 0.0394 J 69.4 J 0.140 J	2,330 0.295 J 0.0278 J 76.4 J 0.139 J	0.426 J 0.0571 J 49.4 J 0.171 J	0.211 J 0.0244 J 37.4 J 0.137 J	0.215 J < 0.0296 45.8 J 0.112 J	2,090 0.508 J 0.0758 J 53.5 J 0.204 J	0.396 J 0.0396 J 52.1 J 0.168 J	0.318 J < 0.0280 40.7 J 0.111 J
Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7. 7. 7. 7. 7. 7. 7.	440-02-0 440-09-7 7782-49-2 440-22-4 440-23-5 440-28-0 740-62-2	130 4 8.3 	30 3.9 2 5	30 3.9 2 	 36 36 100	 180 180 	2,250 0.236 J < 0.0191 52.3 J 0.124 J 28.7	1,700 0.400 J 0.0511 J 59.5 J 0.153 J 31.1	2,030 0.393 J 0.0394 J 69.4 J 0.140 J 33.4	2,330 0.295 J 0.0278 J 76.4 J 0.139 J 30.6	0.426 J 0.0571 J 49.4 J 0.171 J 32.5	0.211 J 0.0244 J 37.4 J 0.137 J 25.6	0.215 J < 0.0296 45.8 J 0.112 J 26.8	2,090 0.508 J 0.0758 J 53.5 J 0.204 J 33	0.396 J 0.0396 J 52.1 J 0.168 J 32.9	0.318 J < 0.0280 40.7 J 0.111 J 26.7
Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7. 7. 7. 7. 7. 7. 7. 7.	7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	130 4 8.3 	30 3.9 2 5	30 3.9 2 	 36 36 	 180 180 	2,250 0.236 J < 0.0191 52.3 J 0.124 J	1,700 0.400 J 0.0511 J 59.5 J 0.153 J	2,030 0.393 J 0.0394 J 69.4 J 0.140 J	2,330 0.295 J 0.0278 J 76.4 J 0.139 J	0.426 J 0.0571 J 49.4 J 0.171 J	0.211 J 0.0244 J 37.4 J 0.137 J	0.215 J < 0.0296 45.8 J 0.112 J	2,090 0.508 J 0.0758 J 53.5 J 0.204 J	0.396 J 0.0396 J 52.1 J 0.168 J	0.318 J < 0.0280 40.7 J 0.111 J

--: 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							OU1EESB59	OU1EESB59	OU1EESB59	OU1EESB59	OU1EESB60	OU1EESB60	OU1EESB60	OU1EESB60	OU1EESB61	OU1EESB61
	Sample Date				Unrestricted		375-6.8(b) &	5/26/2017 OU1EESB59-S-0.17-	5/26/2017 OU1EESB59-S-0.50-	5/26/2017 OU1EESB59-S-1.00-	5/26/2017 OU1EESB59-SD-0.50-	5/30/2017 OU1EESB60-S-0.17-	5/30/2017 OU1EESB60-S-0.50-	5/30/2017 OU1EESB60-S-1.00-	5/30/2017 OU1EESB60-SD-1.00-	6/1/2017 OU1EESB61-S-0.17-	6/1/2017 OU1EESB61-S-0.50
	Field Sample ID Depth Interval				Use Soil	375-6.8(b) &	CP-51	0.17-0.5	0.5-1	1-2	0.5-1	0.17-0.5	0.5-1	1-2	1-2	0.17-0.5	0.5-1
	ample Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	FD	REG	REG	REG	FD	REG	REG
Parameter Name		Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
olatile Organic Compounds	_																
,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-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 (Freoi		76-13-1 75-04-0	6	-		100		< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002		
,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		37-61-6		20		-	-		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
1,2,4-Trichlorobenzene		20-82-1	3.4	20	-	-	-		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
1,2-Dibromo-3-chloropropane (DBC		06-12-8	-	-	-	-	-		< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002		
1,2-Dibromoethane		06-93-4		-				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
1,2-Dichlorobenzene (o-Dichlorobe		05-50-1	1.1		1.1	100	100		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
1,2-Dichloroethane		07-06-2	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		47		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
1,3-Dichlorobenzene		541-73-1 106 46 7	2.4		2.4	17	49		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
1,4-Dichlorobenzene		06-46-7	1.8	20	1.8	9.8	13	0.04.1	< 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 4-Methyl-2-pentanone		91-78-6 108-10-1	1				-	< 0.004	< 0.003	< 0.003	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004		
		67-64-1		-				< 0.004	< 0.003	< 0.003	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004		
Acetone			0.05	2.2 70	0.05	100	100	<u>0.16</u>	0.12	<u>0.081</u>	<u>0.11</u>	0.33	0.13	<u>0.15</u>	<u>0.16</u>		
Benzene		′1-43-2	0.06		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 75-07-4		-	-	-	-	< 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 Bromomethane (Methyl bromide)		75-25-2	-			-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Carbon disulfide		74-83-9 75-15-0	2.7	-		100	-	< 0.002	< 0.002	< 0.002	< 0.002 < 0.001	< 0.003	< 0.002	< 0.002 < 0.001	< 0.002		
Carbon Tetrachloride		6-23-5	0.76		0.76	1.4		< 0.001	< 0.001 < 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
		08-90-7		40		1.4	2.4 100	< 0.001 < 0.001		< 0.001	< 0.001	< 0.001	< 0.001 < 0.001	< 0.001	< 0.001		
Chlorobenzene Chloroethane		75-00-3	1.1		1.1			< 0.001	< 0.001 < 0.002	< 0.001 < 0.002	< 0.001	< 0.001 < 0.003	< 0.001	< 0.001	< 0.001 < 0.002		
Chloroform		5-00-3 57-66-3	0.37	12	0.37	10	49	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002		-
Chloromethane (Methyl chloride)		74-87-3	0.37	12	0.37		49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		-
cis-1,2-Dichloroethene		56-59-2	0.25		0.25	59	100	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002		
cis-1,3-Dichloropropene		0061-01-5	0.23	-	0.23			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		-
Cyclohexane		10-82-7		-			-	< 0.001	< 0.001		< 0.001			< 0.001			
Dibromochloromethane		24-48-1		10						< 0.001		< 0.001	< 0.001		< 0.001		
Dichlorodifluoromethane (Freon 12)		75-71-8					-	< 0.001 < 0.002	< 0.001 < 0.002	< 0.001 < 0.002	< 0.001 < 0.002	< 0.001 < 0.003	< 0.001 < 0.002	< 0.001 < 0.002	< 0.001 < 0.002		
Diisopropyl ether	,	08-20-3	-				-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002		
Ethyl-t-butylether		37-92-3	-				-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		-
Ethylbenzene		00-41-4	1		1	30	41	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
sopropylbenzene		8-82-8	2.3	-	-	100		< 0.001	< 0.001	< 0.001	< 0.001	0.005 J	< 0.001	< 0.001	< 0.001		
n,p-Xylenes		(YLENES-MP		-	-			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Methyl acetate		9-20-9		-	-			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
Methyl-t-butyl ether		634-04-4	0.93		0.93	62	100	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	-	
Methylcyclohexane		08-87-2		-				< 0.001	< 0.0003	< 0.001	< 0.000	< 0.0007	< 0.001	< 0.001	< 0.001		
Methylene chloride (Dichloromethar		75-09-2	0.05	12	0.05	51	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
o-Xylene)5-47-6	0.05		0.05			< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002		
V		00-42-5		300		_	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
ert-Amyl methyl ether		94-05-8					-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
ertiary Butyl Alcohol		75-65-0					-	< 0.024	< 0.022	< 0.021	< 0.001	< 0.028	< 0.023	< 0.024	< 0.025		
etrachloroethene		27-18-4	1.3	2	1.3	5.5	19	< 0.024	< 0.022	< 0.021	< 0.021	< 0.028	< 0.023	< 0.024	< 0.025		
oluene		08-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	< 0.001	0.041	0.001 0.004 J	< 0.001	< 0.001		
ans-1,2-Dichloroethene		56-60-5	0.7		0.7	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.004 3	< 0.001	< 0.001		
ans-1,3-Dichloropropene		0061-02-6	0.19						< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			
richloroethene (Trichloroethylene)		79-01-6	0.47	2	0.47	10	21	< 0.001							< 0.001		
, ,		75-69-4	0.47		0.47			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		
richlorofluoromethane (Freon 11)				-		0.24		< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002		
/inyl 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		
ylene (total)	1	330-20-7	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 ield Sample ID Depth Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB59 5/26/2017 OU1EESB59-S-0.17- 0.17-0.5	OU1EESB59 5/26/2017 OU1EESB59-S-0.50- 0.5-1	OU1EESB59 5/26/2017 OU1EESB59-S-1.00- 1-2	OU1EESB59 5/26/2017 OU1EESB59-SD-0.50- 0.5-1	OU1EESB60 5/30/2017 OU1EESB60-S-0.17- 0.17-0.5	OU1EESB60 5/30/2017 OU1EESB60-S-0.50- 0.5-1	OU1EESB60 5/30/2017 OU1EESB60-S-1.00- 1-2	OU1EESB60 5/30/2017 OU1EESB60-SD-1.00- 1-2	OU1EESB61 6/1/2017 OU1EESB61-S-0.17- 0.17-0.5	OU1EESB61 6/1/2017 OU1EESB61-S-0.50- 0.5-1
Sa	mple Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	FD	REG	REG	REG	FD	REG	REG
Parameter Name emivolatile Organic Compounds	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted			<u> </u>							
,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
,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 2,4,5-Trichlorophenol	58-90-2 95-95-4	0.1	4		100		< 0.088 < 0.022	< 0.087 < 0.022	< 0.090 < 0.023	< 0.091 < 0.023	< 0.089 < 0.022	< 0.084 < 0.021	< 0.082 < 0.021	< 0.079 < 0.02	< 0.092 < 0.023	< 0.089 < 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
,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	121-14-2 606-20-2	0.17			1.03		< 0.088 < 0.022	< 0.087 < 0.022	< 0.09 < 0.023	< 0.091 < 0.023	< 0.089 < 0.022	< 0.084 < 0.021	< 0.082 < 0.021	< 0.079 < 0.02	< 0.092 < 0.023	< 0.089 < 0.022
-Chloronaphthalene	91-58-7		-			-	< 0.009	< 0.002	< 0.009	< 0.009	< 0.009	< 0.008	< 0.008	< 0.02	< 0.009	< 0.009
-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) 2-Nitrophenol (o-Nitrophenol)	88-74-4 88-75-5	0.4	7		-	-	< 0.022 < 0.022	< 0.022 < 0.022	< 0.023 < 0.023	< 0.023 < 0.023	< 0.022 < 0.022	< 0.021 < 0.021	< 0.021 < 0.021	< 0.02 < 0.02	< 0.023 < 0.023	< 0.022 < 0.022
3,3'-Dichlorobenzidine	91-94-1				-	-	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.12	< 0.023	< 0.022
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
1,6-Dinitro-2-methylphenol (4,6-Din	· · · · · · · · · · · · · · · · · · ·	-	-	-	-	-	< 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 4-Chlorophenyl phenyl ether	106-47-8 7005-72-3	0.22	-		100		< 0.044 < 0.022	< 0.044 < 0.022	< 0.045 < 0.023	< 0.046 < 0.023	< 0.044 < 0.022	< 0.042 < 0.021	< 0.041 < 0.021	< 0.04 < 0.02	< 0.046 < 0.023	< 0.044 < 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 Acetophenone	208-96-8 98-86-2	107	-	100	100	100	< 0.004 < 0.022	0.007 J	< 0.005	0.007 J 0.025 J	< 0.004 < 0.022	< 0.004	< 0.004 < 0.021	< 0.004	< 0.005 < 0.023	< 0.004 < 0.022
Anthracene	120-12-7	1000	-	100	100	100	< 0.022	< 0.022 0.005 J	< 0.023 < 0.005	0.025 J	< 0.022	< 0.021 < 0.004	< 0.021	< 0.02 < 0.004	< 0.025	< 0.022
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 Benzo(b)fluoranthene	50-32-8 205-99-2	1.70	2.6	1	1	1	< 0.004 0.006 J	0.014 J 0.027	0.007 J 0.011 J	0.025 0.044	0.02 J 0.027	< 0.004 < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	0.009 J 0.019 J	< 0.004 < 0.004
Benzo(g,h,i)perylene	191-24-2	1000	-	100	100	100	< 0.004	0.027 0.014 J	0.011 J	0.044 0.021 J	0.027 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
ois(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
ois(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
ois(2-chloroisopropyl) ether ois(2-Ethylhexyl)phthalate	108-60-1 117-81-7	435	239		50	-	< 0.022 < 0.088	< 0.022 < 0.087	< 0.023 < 0.09	< 0.023 < 0.091	< 0.022 < 0.089	< 0.021 < 0.084	< 0.021 < 0.082	< 0.02 < 0.079	< 0.023 < 0.092	< 0.022 < 0.089
Butylbenzylphthalate	85-68-7	122			100	-	< 0.088	< 0.087	< 0.09	< 0.091	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
Caprolactam	105-60-2	-			-	-	< 0.044	< 0.044	< 0.045	< 0.046	< 0.044	< 0.042	< 0.041	< 0.04	< 0.046	< 0.044
Carbazole	86-74-8						< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
Chrysene	218-01-9	1	-	1	1	3.9	< 0.004	0.019 J	0.009 J	0.028	0.021 J	< 0.004	< 0.004	0.004 J	0.017 J	< 0.004
Di-n-butylphthalate Di-n-octylphthalate	84-74-2 117-84-0	8.1 120	0.01		100 100	-	< 0.088 < 0.088	< 0.087 < 0.087	< 0.09	< 0.091 < 0.091	< 0.089	< 0.084 < 0.084	< 0.082 < 0.082	< 0.079	< 0.092	< 0.089 < 0.089
Dibenz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.088	< 0.087	< 0.09 < 0.005	0.008 J	< 0.089 < 0.004	< 0.084	< 0.082	< 0.079 < 0.004	< 0.092 < 0.005	< 0.004
Dibenzofuran	132-64-9	6.20	-	7	14	59	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
Diethylphthalate	84-66-2	7.1	100	-	100		< 0.088	< 0.087	< 0.09	< 0.091	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
Dimethyl phthalate	131-11-3	27	200	-	100	-	< 0.088	< 0.087	< 0.09	< 0.091	< 0.089	< 0.084	< 0.082	< 0.079	< 0.092	< 0.089
Diphenyl (Biphenyl, Phenyl benzene Fluoranthene	92-52-4 206-44-0	1000	60	100	100	100	< 0.022 0.005 J	< 0.022 0.028	< 0.023 0.012 J	< 0.023 0.044	< 0.022 0.033	< 0.021 < 0.004	< 0.021 < 0.004	< 0.02 < 0.004	< 0.023 0.021 J	< 0.022 < 0.004
Fluorene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004
Hexachlorobenzene	118-74-1	1.4	-	0.33	0.33	1.2	< 0.004	< 0.004	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004
Hexachlorobutadiene	87-68-3			-	-		< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
lexachlorocyclopentadiene	77-47-4	-	10		-	-	< 0.22	< 0.22	< 0.23	< 0.23	< 0.22	< 0.21	< 0.21	< 0.2	< 0.23	< 0.22
lexachloroethane ndeno(1,2,3-cd)Pyrene	67-72-1 193-39-5	8.2	-	0.5	0.5	0.5	< 0.044 < 0.004	< 0.044 0.011 J	< 0.045	< 0.046 0.021 J	< 0.044	< 0.042 < 0.004	< 0.041 < 0.004	< 0.04 < 0.004	< 0.046 0.008 J	< 0.044 < 0.004
sophorone	78-59-1	4.4	-		100	U.5 	< 0.004	< 0.022	0.005 J < 0.023	< 0.021 3	0.012 J < 0.022	< 0.004	< 0.004	< 0.004	< 0.023	< 0.004
I-Nitrosodi-n-propylamine	621-64-7		-				< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
I-Nitrosodiphenylamine (Diphenyla	mine) 86-30-6		20		-		< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
Naphthalene	91-20-3	12	-	12	100	100	< 0.004	0.007 J	< 0.005	0.005 J	0.005 J	< 0.004	< 0.004	< 0.004	0.005 J	0.005 J
litrobenzene	98-95-3	0.17	40		3.7	15	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
o-Chloro-m-cresol Pentachlorophenol	59-50-7 87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.022 < 0.044	< 0.022 < 0.044	< 0.023 < 0.045	< 0.023 < 0.046	< 0.022 < 0.044	< 0.021 < 0.042	< 0.021 < 0.041	< 0.02 < 0.04	< 0.023 < 0.046	< 0.022 < 0.044
Phenanthrene	85-01-8	1000		100	100	100	< 0.044	0.044 0.017 J	0.045 0.007 J	0.023	0.019 J	< 0.042	< 0.041	< 0.04	0.046 0.014 J	< 0.044
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.022	< 0.022	< 0.023	< 0.023	< 0.022	< 0.021	< 0.021	< 0.02	< 0.023	< 0.022
Pyrene	129-00-0	1000		100	100	100	0.005 J	0.026	0.012 J	0.042	0.033	0.006 J	< 0.004	0.005 J	0.018 J	< 0.004



Fie D	Location ID Sample Date old Sample ID lepth Interval nple Purpose Code			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				_	_	<u> </u>										
Aroclor 1016	12674-11-		-		-											
Aroclor 1221 Aroclor 1232	11104-28-		-		-	-										
Aroclor 1242	11141-16- 53469-21-				-											
Aroclor 1248	12672-29-		-					-						-		
Aroclor 1254	11097-69-		-													
Aroclor 1260	11096-82-				-											
Aroclor 1262	37324-23-	5	-		_											
Aroclor 1268	11100-14-	4	-		-											
Pesticides	<u> </u>															
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 alpha BHC	309-00-2	0.19	0.14	0.005	0.019	0.097		-								
alpha Chlordane	319-84-6 5103-71-9	0.02 2.9	0.04 1.30	0.02 0.094	0.097 0.91	0.48 4.2										
beta BHC	319-85-7	0.09	0.6	0.036	0.91	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-		-		-											
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3										
gamma Chlordane HEPTACHLOR	5103-74-2 76-44-8	0.38	0.14	0.042	0.54 0.42	2.1		-								
HEPTACHLOR EPOXIDE	1024-57-3		0.14	0.042	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		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		433	350	350	400	100	89.5	76.8	86.8	89.5	79.8	61	61.4	285	124
Beryllium Cadmium	7440-41-7 7440-43-9		10 4	7.2 2.5	14 2.5	72 4.3	1.2 0.0870 J	0.918	0.842 0.0606 J	0.928 < 0.0481	1.3 0.187	1.12 0.0974 J	0.706	0.662 0.0551 J	2.18 0.456	1.43 0.159 J
Calcium	7440-43-9		10000	2.5	2.5	4.3	473	0.0600 J 313	269	340	1,080	539	0.0609 J 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		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		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		1600	1600	2000	2000	1,210	850	753	888	1,220	819	448	456	4,060	1,510
Nickel	7440-02-0		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		3.0			190	1,680	1,860	1,850	1,740	1,010	1,180	1,360	1,430	1,810	1,770
Selenium Silver	7782-49-2 7440-22-4		3.9	3.9	36 36	180 180	0.651 J	0.440 J 0.0502 J	0.455 J 0.0413 J	0.411 J 0.0528 J	0.545 J 0.125 J	0.363 J 0.0994 J	0.285 J 0.035 J	0.322 J 0.028 J	1.17 0.209 J	0.572 J 0.128 J
Sodium	7440-22-4					180	0.134 J 53.8 J	0.0502 J 46.3 J	0.0413 J 42.4 J	0.0528 J 42.6 J	36.5 J	0.0994 J 37.2 J	33.6 J	0.028 J 32.8 J	75.4 J	0.128 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	28.1	26.4	24.1	23.9	48	39.4
Zinc	7440-66-6		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		0.18	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:																

--: 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			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB61 6/1/2017 OU1EESB61-S-1.00- 1-2	OU1EESB62 6/1/2017 OU1EESB62-S-0.17- 0.17-0.5	OU1EESB62 6/1/2017 OU1EESB62-S-0.50- 0.5-1	OU1EESB62 6/1/2017 OU1EESB62-S-1.00- 1-2	OU1EESB62 6/1/2017 OU1EESB62-SD-0.50- 0.5-1	OU1EESB63 5/31/2017 OU1EESB63-S-0.17- 0.17-0.5	OU1EESB63 5/31/2017 OU1EESB63-S-0.50- 0.5-1	OU1EESB63 5/31/2017 OU1EESB63-S-1.00- 1-2	OU1EESB64 5/31/2017 OU1EESB64-S-0.17- 0.17-0.5	OU1EESB64 5/31/2017 OU1EESB64-S-0.50- 0.5-1
	Sample Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
olatile Organic Compounds	75.05.4														0.004	0.004
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 (Fre		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 (DE	BCP) 96-12-8	-			-										< 0.003	< 0.002
1,2-Dibromoethane	106-93-4	-			-										< 0.001	< 0.001
1,2-Dichlorobenzene (o-Dichlorob	penzene) 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)		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	<u>0.091</u>
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)		-	-	-	-	-		-		-		-			< 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 1:					-										< 0.003	< 0.002
Diisopropyl ether	108-20-3		-		_	-									< 0.003	< 0.002
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 (Dichlorometha	,	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
ert-Amyl methyl ether	994-05-8	-	-		-										< 0.001	< 0.001
ertiary Butyl Alcohol	75-65-0		-		-	-									< 0.026	< 0.023
etrachloroethene	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
rans-1,2-Dichloroethene	156-60-5	0.19		0.19	100	100									< 0.001	< 0.001
rans-1,3-Dichloropropene	10061-02-6														< 0.001	< 0.001
richloroethene (Trichloroethylene		0.47	2	0.47	10	21									< 0.001	< 0.001
															< 0.003	< 0.001
Trichlorofluoromethane (Freon 11)																
/inyl chloride (Chloroethene)	75-01-4	0.02		0.02	0.21	0.9									< 0.001	< 0.001
(ylene (total)	1330-20-7	1.60	0.26	0.26	100	100						-			< 0.001	< 0.001



Locatio Sample Field Samp Depth Into Sample Purp Parameter Name	Date le ID erval	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 2,4-Dichlorophenol	88-06-2 120-83-2	0.4	10 20		100	-	< 0.021 < 0.021	< 0.024	< 0.022	< 0.02 < 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021 < 0.021	< 0.02 < 0.02
2,4-Dimethylphenol	105-67-9						< 0.021	< 0.024 < 0.024	< 0.022 < 0.022	< 0.02	< 0.019 < 0.019	< 0.021 < 0.021	< 0.02 < 0.02	< 0.022 < 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) 2-Methyl-Naphthalene	95-57-8 91-57-6	36.4	0.80		100 0.41		< 0.021 < 0.004	< 0.024 < 0.005	< 0.022 0.005 J	< 0.02 < 0.004	< 0.019 < 0.004	< 0.021 < 0.004	< 0.02 < 0.004	< 0.022 0.006 J	< 0.021 < 0.004	< 0.02 < 0.004
2-Methylphenol (o-Cresol)	95-48-7	0.33		0.33	100	100	< 0.004	< 0.005	< 0.022	< 0.004	< 0.004	< 0.004	< 0.02	< 0.022	< 0.004	< 0.004
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-creso	ol) 534-52-1 101-55-3	-	-	-	_	-	< 0.21	< 0.24	< 0.22	< 0.2	< 0.19	< 0.21	< 0.2	< 0.22	< 0.21	< 0.2
4-Bromophenylphenylether 4-Chloroaniline	106-47-8	0.22	-		100		< 0.021 < 0.042	< 0.024 < 0.048	< 0.022 < 0.044	< 0.02 < 0.04	< 0.019 < 0.039	< 0.021 < 0.042	< 0.02 < 0.04	< 0.022 < 0.043	< 0.021 < 0.042	< 0.02 < 0.041
4-Chlorophenyl phenyl ether	7005-72-3		-				< 0.021	< 0.024	< 0.022	< 0.04	< 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 Acetophenone	208-96-8 98-86-2	107	-	100	100	100	< 0.004 < 0.021	< 0.005 < 0.024	< 0.004 < 0.022	< 0.004 < 0.020	< 0.004 < 0.019	< 0.004 < 0.021	0.004 J < 0.02	< 0.004 < 0.022	< 0.004 < 0.021	< 0.004 < 0.02
Anthracene	120-12-7	1000	-	100	100	100	< 0.004	< 0.005	< 0.022	< 0.020	< 0.004	< 0.004	< 0.02	< 0.022	< 0.004	< 0.02
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 Benzo(g,h,i)perylene	205-99-2 191-24-2	1.70 1000	-	100	1 100	100	< 0.004 < 0.004	0.034 0.021 J	< 0.004 < 0.004	0.005 J 0.004 J	0.007 J 0.004 J	0.015 J 0.008 J	0.02 J 0.008 J	0.018 J 0.01 J	0.01 J 0.005 J	< 0.004 < 0.004
Benzo(k)fluoranthene	207-08-9	1.7	-	0.8	1	3.9	< 0.004	0.0213 0.018 J	< 0.004	< 0.004 3	0.004 J	0.005 J	0.008 J	0.01 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)phthalate	117-81-7 85-68-7	435	239	-	50 100	-	< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
Butylbenzylphthalate Caprolactam	105-60-2	122	-		100		< 0.083 < 0.042	< 0.096 < 0.048	< 0.089 < 0.044	< 0.079 < 0.040	< 0.077 < 0.039	< 0.084 < 0.042	< 0.079 < 0.04	< 0.087 < 0.043	< 0.083 < 0.042	< 0.082 < 0.041
Carbazole	86-74-8	-	-			-	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
Chrysene	218-01-9	1		1	1	3.9	< 0.004	0.031	< 0.004	< 0.004	0.006 J	0.01 J	0.017 J	0.012 J	0.006 J	< 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01		100		< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
Di-n-octylphthalate	117-84-0	120	-		100		< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
Dibenz(a,h)anthracene Dibenzofuran	53-70-3 132-64-9	1000 6.20	-	0.33	0.33 14	0.33 59	< 0.004 < 0.021	< 0.005 < 0.024	< 0.004 < 0.022	< 0.004 < 0.02	< 0.004 < 0.019	< 0.004 < 0.021	< 0.004 < 0.02	< 0.004 < 0.022	< 0.004 < 0.021	< 0.004 < 0.02
Diethylphthalate	84-66-2	7.1	100		100		< 0.021	< 0.024 < 0.096	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02 < 0.079	< 0.022 < 0.087	< 0.021	< 0.02
Dimethyl phthalate	131-11-3	27	200		100	-	< 0.083	< 0.096	< 0.089	< 0.079	< 0.077	< 0.084	< 0.079	< 0.087	< 0.083	< 0.082
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	-	60		-		< 0.021	< 0.024	< 0.022	< 0.020	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
Fluoranthene	206-44-0	1000	-	100	100	100	< 0.004	0.047	< 0.004	0.004 J	0.007 J	0.015 J	0.018 J	0.019 J	0.008 J	< 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	< 0.004	< 0.004	< 0.004
Hexachlorobenzene Hexachlorobutadiene	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	< 0.004	< 0.004	< 0.004
Hexachlorocyclopentadiene	87-68-3 77-47-4	-	10				< 0.021 < 0.21	< 0.024 < 0.24	< 0.022 < 0.22	< 0.02 < 0.2	< 0.019 < 0.19	< 0.021 < 0.21	< 0.02 < 0.2	< 0.022 < 0.22	< 0.021 < 0.21	< 0.02 < 0.2
Hexachloroethane	67-72-1						< 0.042	< 0.048	< 0.044	< 0.24	< 0.039	< 0.042	< 0.04	< 0.043	< 0.042	< 0.041
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	< 0.004	0.016 J	< 0.004	< 0.004	< 0.004	0.006 J	0.007 J	0.007 J	< 0.004	< 0.004
Isophorone	78-59-1	4.4			100		< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
N-Nitrosodi-n-propylamine	621-64-7	-			-		< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6		20		100	100	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
Naphthalene Nitrobenzene	91-20-3 98-95-3	12 0.17	40	12	100 3.7	100 15	< 0.004 < 0.021	0.006 J < 0.024	< 0.004 < 0.022	< 0.004 < 0.02	< 0.004 < 0.019	< 0.004 < 0.021	< 0.004 < 0.02	0.005 J < 0.022	< 0.004 < 0.021	< 0.004 < 0.02
p-Chloro-m-cresol	59-50-7	0.17			3.7		< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.042	< 0.048	< 0.044	< 0.02	< 0.039	< 0.042	< 0.02	< 0.043	< 0.042	< 0.041
Phenanthrene	85-01-8	1000	-	100	100	100	< 0.004	0.031	0.006 J	< 0.004	0.005 J	0.011 J	0.012 J	0.013 J	0.005 J	< 0.004
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.021	< 0.024	< 0.022	< 0.02	< 0.019	< 0.021	< 0.02	< 0.022	< 0.021	< 0.02
Pyrene	129-00-0	1000		100	100	100	< 0.004	0.044	< 0.004	0.005 J	0.008 J	0.017 J	0.018 J	0.019 J	0.008 J	< 0.004



Parameter Nan	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose ne Paramete 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	Tie Coue	CF-ST FOG	CF-STFER	Objectives	Residential	Restricted			<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>
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 Pesticides	11100-14-4	-														
4,4-DDD	72-54-8	14	0.0033	0.0033	2.6	13										
4,4-DDE	72-54-8	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 AL DELIVOE	72-20-8	0.06	0.01	0.014	2.2	11										
ENDRIN ALDEHYDE ENDRIN KETONE	7421-93-4	-	-	-	-											
gamma BHC (Lindane)	53494-70-5 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 Chromium	7440-70-2	-	10000		36	100	1,620	755	292	759	361	402	245	287	345	220
Cobalt	7440-47-3 7440-48-4		20	30	36	180	23.1 7.62	16	16.8 8.03	20.3 15.6	18.3 9.39	42.5 9.55	101 10.6	28.5 8.11	30.8 8.2	19.1 10.6
Copper	7440-48-4	1720	50	50	270	270	21.8	5.88 13.6	14.5	21.8	9.39	9.55	10.6	10.5	13.2	10.6
Iron	7440-30-6				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 0.73	109 0.18	109 0.18	2200 0.81	10000 0.81	65.7	60.6 0.102 J	55.2 0.0233 J	70.8 0.0244 J	64 0.0488 J	79.8 0.0647 J	64.5 0.0444 J	67.5 0.0417 J	78 0.0825 J	65
Mercury	7439-97-6						0.0483 J	0.400 1			0.0400 I					0.0319 J

--: 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



Parameter Nan	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose ne	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
/olatile Organic Compounds		75.05.4	0.00		0.00	400	400	0.0000	0.004								
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 (F 1,1-Dichloroethane	,	76-13-1	6			100 19	26	< 0.002	< 0.002								
1,2,3-Trichlorobenzene		75-34-3 87-61-6	0.27	20	0.27			< 0.0009	< 0.001		-						
1,2,4-Trichlorobenzene						-	-	< 0.0009	< 0.001								
		120-82-1 96-12-8	3.4	20		-	-	< 0.0009	< 0.001								
1,2-Dibromo-3-chloropropane ([1,2-Dibromoethane			-			-	-	< 0.002	< 0.002				-				
		106-93-4	-					< 0.0009	< 0.001				-				
1,2-Dichlorobenzene (o-Dichloro		95-50-1	1.1		1.1	100	100	< 0.0009	< 0.001								
1,2-Dichloroethane 1,2-Dichloropropane		107-06-2 78-87-5	0.02	10 700	0.02	2.3	3.1	< 0.0009 < 0.0009	< 0.001 < 0.001								
1,3-Dichloropropane			2.4		2.4	17											
		541-73-1 106-46-7	2.4		2.4	17	49	< 0.0009	< 0.001								
1,4-Dichlorobenzene 2-Butanone (Methyl ethyl ketone		106-46-7 78-93-3	1.8 0.3	20 100	1.8	9.8	13 100	< 0.0009	< 0.001								
z-Butanone (Metnyl etnyl ketone 2-Hexanone	,	78-93-3 591-78-6	0.3	100	0.12	100	100	0.005 J < 0.003	0.004 J								
4-Methyl-2-pentanone		108-10-1	1			_			< 0.003				-				
		67-64-1	0.05			100		< 0.003	< 0.003								
Acetone		71-43-2	0.05	2.2 70	0.05 0.06	2.9	100 4.8	<u>0.064</u> < 0.0005	<u>0.075</u> < 0.0005								
Benzene Bromochloromethane		71-43-2 74-97-5			0.06	2.9	4.0	< 0.0009	< 0.0005	-							
Bromodichloromethane		75-27-4					-	< 0.0009									
Bromoform		75-25-2		-		-	-	< 0.0009	< 0.001								
Bromomethane (Methyl bromide		74-83-9	-	-	-	_		< 0.0009	< 0.001 < 0.002	-			-		-		
Carbon disulfide		74-03-9 75-15-0	2.7			100	-	< 0.002	< 0.002						-		
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					< 0.0009	< 0.001								
Chloroform		67-66-3	0.37	12	0.37	10	49	< 0.002	< 0.002								
Chloromethane (Methyl chloride		74-87-3			0.37			< 0.0009	< 0.001	-					-		
cis-1,2-Dichloroethene		156-59-2	0.25		0.25	59	100	< 0.002	< 0.002								
cis-1,3-Dichloropropene		10061-01-5			0.23			< 0.0009	< 0.001								
Cyclohexane		110-82-7				_		< 0.0009	< 0.001				-				
Dibromochloromethane		124-48-1		10		_	-	< 0.0009	< 0.001								
Dichlorodifluoromethane (Freon		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								
sopropylbenzene		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	< 0.002	< 0.0005								
Methylcyclohexane		108-87-2						< 0.0009	< 0.0003								
Methylene chloride (Dichlorome		75-09-2	0.05	12	0.05	51	100	< 0.002	< 0.002								
o-Xylene		95-47-6				-		< 0.002	< 0.002								
Styrene		100-42-5		300				< 0.0009	< 0.001								
ert-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	< 0.009	< 0.001						-		
Toluene		108-88-3	0.7	36	0.7	100	100	< 0.0009	< 0.001								
rans-1,2-Dichloroethene		156-60-5	0.19		0.19	100	100	< 0.0009	< 0.001								
rans-1,3-Dichloropropene		10061-02-6	0.19		0.19			< 0.0009	< 0.001								
Trichloroethene (Trichloroethyle		79-01-6	0.47	2	0.47	10	21	< 0.0009	< 0.001								
Trichlorofluoromethane (Freon 1		75-69-4						< 0.009	< 0.001								
		75-09-4 75-01-4	0.02	-	0.02	0.21	0.9	< 0.002	< 0.002								
Vinyl chloride (Chloroethene)						100	100										
Xylene (total)		1330-20-7	1.60	0.26	0.26	100	100	< 0.0009	< 0.001	-	-		-		-		-



Fie	Location ID Sample Date Id Sample ID			Unrestricted		375-6.8(b) &	OU1EESB64 5/31/2017 OU1EESB64-S-1.00-	OU1EESB64 5/31/2017 OU1EESB64-SD-0.50-	OU1EESB65 5/31/2017 OU1EESB65-S-0.17-	OU1EESB65 5/31/2017 OU1EESB65-S-0.50-	OU1EESB65 5/31/2017 OU1EESB65-S-1.00-	OU1EESB66 5/31/2017 OU1EESB66-S-0.17-	OU1EESB66 5/31/2017 OU1EESB66-S-0.50-	OU1EESB66 5/31/2017 OU1EESB66-S-1.00-	OU1EESB67 6/1/2017 OU1EESB67-S-0.17-	OU1EESB67 6/1/2017 OU1EESB67-S-0.50
	Depth Interval nple Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) & CP-51	CP-51 Residential-	1-2 REG	0.5-1 FD	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.17-0.5 REG	0.5-1 REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
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
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
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
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
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
4-Dichlorophenol 4-Dimethylphenol	120-83-2 105-67-9	0.4	20		100	-	< 0.019 < 0.019	< 0.019 < 0.019	< 0.021 < 0.021	< 0.02 < 0.02	< 0.019 < 0.019	< 0.021 < 0.021	< 0.02 < 0.02	< 0.02 < 0.02	< 0.021 < 0.021	< 0.024 < 0.024
4-Dinitrophenol	51-28-5	0.2	20		100		< 0.34	< 0.35	< 0.38	< 0.36	< 0.35	< 0.38	< 0.02	< 0.35	< 0.39	< 0.43
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
6-Dinitrotoluene	606-20-2	0.17	-	-	1.03	-	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
-Chloronaphthalene	91-58-7	-	-	-	-	-	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.009	< 0.01
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
Methyl-Naphthalene Methylphenol (o-Cresol)	91-57-6 95-48-7	36.4 0.33	-	0.33	0.41 100	100	< 0.004 < 0.019	< 0.004 < 0.019	< 0.004 < 0.021	< 0.004 < 0.02	< 0.004 < 0.019	0.006 J < 0.021	< 0.004 < 0.02	< 0.004 < 0.02	< 0.004 < 0.021	< 0.005 < 0.024
-Nitroaniline (o-Nitroaniline)	88-74-4	0.33	-	0.33			< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
-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'-Dichlorobenzidine	91-94-1	-	-	-	-		< 0.11	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.14
-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
,6-Dinitro-2-methylphenol (4,6-Dinit	,		-	-	-		< 0.19	< 0.19	< 0.21	< 0.2	< 0.19	< 0.21	< 0.2	< 0.2	< 0.21	< 0.24
-Bromophenylphenylether -Chloroaniline	101-55-3 106-47-8	0.22	-		100	-	< 0.019 < 0.038	< 0.019 < 0.039	< 0.021 < 0.042	< 0.02 < 0.04	< 0.019 < 0.039	< 0.021 < 0.042	< 0.02 < 0.04	< 0.02 < 0.039	< 0.021 < 0.043	< 0.024 < 0.048
-Chlorophenyl phenyl ether	7005-72-3	0.22	-	-	100		< 0.038	< 0.039	< 0.042 < 0.021	< 0.04 < 0.02	< 0.039	< 0.042 < 0.021	< 0.04	< 0.039	< 0.043	< 0.048 < 0.024
-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
-Nitroaniline	100-01-6				-		< 0.075	< 0.077	< 0.085	< 0.081	< 0.078	< 0.085	< 0.081	< 0.079	< 0.086	< 0.096
-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
cenaphthene	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
cenaphthylene	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
cetophenone .nthracene	98-86-2 120-12-7	1000	-	100	100	100	< 0.019 < 0.004	< 0.019 < 0.004	< 0.021 < 0.004	< 0.02 < 0.004	< 0.019 < 0.004	< 0.021 0.008 J	< 0.02 < 0.004	< 0.02 < 0.004	< 0.021 0.005 J	< 0.024 < 0.005
trazine	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	205-99-2 191-24-2	1.70	-	1	100	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 Benzo(k)fluoranthene	207-08-9	1000 1.7	-	100 0.8	100	100 3.9	< 0.004 < 0.004	< 0.004 < 0.004	0.006 J < 0.004	< 0.004 < 0.004	< 0.004 < 0.004	0.015 J 0.012 J	< 0.004 < 0.004	< 0.004 < 0.004	0.009 J 0.008 J	< 0.005 < 0.005
is(2-Chloroethoxy)methane	111-91-1		-		<u> </u>		< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
is(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
ois(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
is(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 Carbazole	105-60-2 86-74-8		-	-	-		< 0.038 < 0.019	< 0.039 < 0.019	< 0.042 < 0.021	< 0.04 < 0.02	< 0.039 < 0.019	< 0.042 < 0.021	< 0.04 < 0.02	< 0.039 < 0.02	< 0.043 < 0.021	< 0.048 < 0.024
Chrysene	218-01-9	1	-	1	1	3.9	< 0.019	< 0.004	0.009 J	< 0.02	< 0.004	0.024	< 0.02	< 0.02	0.016 J	< 0.024
Pi-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
i-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
ibenzofuran	132-64-9 84-66-2	6.20	100	7	14	59	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
liethylphthalate limethyl phthalate	131-11-3	7.1 27	100 200		100 100	-	< 0.075 < 0.075	< 0.077 < 0.077	< 0.085 < 0.085	< 0.081 < 0.081	< 0.078 < 0.078	< 0.085 < 0.085	< 0.081 < 0.081	< 0.079 < 0.079	< 0.086 < 0.086	< 0.096 < 0.096
hiphenyl (Biphenyl, Phenyl benzene)			60	-		-	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.030
uoranthene	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
uorene	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
exachlorobenzene	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
exachlorobutadiene	87-68-3 77-47-4			-	-	-	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
exachlorocyclopentadiene exachloroethane	77-47-4 67-72-1		10		-	-	< 0.19 < 0.038	< 0.19 < 0.039	< 0.21 < 0.042	< 0.2 < 0.04	< 0.19 < 0.039	< 0.21 < 0.042	< 0.2 < 0.04	< 0.2 < 0.039	< 0.21 < 0.043	< 0.24 < 0.048
deno(1,2,3-cd)Pyrene	193-39-5	8.2		0.5	0.5	0.5	< 0.038	< 0.004	0.006 J	< 0.004	< 0.039	0.042 0.013 J	< 0.004	< 0.039	0.043 0.012 J	< 0.048
phorone	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
-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
Nitrosodiphenylamine (Diphenylan	· ·		20		-		< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
aphthalene	91-20-3	12		12	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.11	< 0.004	< 0.004	0.007 J	< 0.005
itrobenzene Chloro-m-cresol	98-95-3 59-50-7	0.17	40		3.7	15	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
entachlorophenol	59-50-7 87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.019 < 0.038	< 0.019 < 0.039	< 0.021 < 0.042	< 0.02 < 0.04	< 0.019 < 0.039	< 0.021 < 0.042	< 0.02 < 0.04	< 0.02 < 0.039	< 0.021 < 0.043	< 0.024 < 0.048
henanthrene	85-01-8	1000		100	100	100	< 0.004	< 0.004	0.008 J	< 0.004	0.004 J	0.024	< 0.004	< 0.004	0.018 J	< 0.005
henol	108-95-2	0.33	30	0.33	100	100	< 0.019	< 0.019	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02	< 0.021	< 0.024
yrene	129-00-0	1000		100	100	100	< 0.004	< 0.004	0.014 J	< 0.004	0.005 J	0.033	0.005 J	0.006 J	0.026	< 0.005



Parameter Na	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Paramete ame 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				,	,						n	n		n		
Aroclor 1016	12674-11-2	-	-		-											
Aroclor 1221	11104-28-2	-	-		-											
Aroclor 1232 Aroclor 1242	11141-16-5 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 beta BHC	5103-71-9 319-85-7	2.9	1.30	0.094	0.91	4.2				-						-
delta BHC	319-85-7	0.09 0.25	0.6 0.04	0.036 0.04	0.072 100	0.36 100										
DIELDRIN	60-57-1	0.25	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 Metals	8001-35-2	-	-													
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		10000				10,700			19,500						
Arsenic			12		_		0.147 J	0.216.1	0.286.1	0.117.1	0.155.1	0.574		0.19.1	0.161.1	
		 16	12 13	 13	 16	 16	0.147 J 6.85	0.216 J 7.14	0.286 J 6.25	0.117 J 6.45	0.155 J 6.88	0.574 8.31	0.122 J 5.37	0.19 J 6.02	0.161 J 6.41	0.158 J 5.77
Barium	7440-38-2 7440-39-3	 16 820	12 13 433	 13 350	 16 350	 16 400	0.147 J 6.85 50	0.216 J 7.14 54	0.286 J 6.25 63.6	0.117 J 6.45 65.4	0.155 J 6.88 57.6	0.574 8.31 59.3	0.122 J 5.37 52.8	0.19 J 6.02 55.9	0.161 J 6.41 71.4	5.77 53.1
	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	7440-38-2 7440-39-3	16 820	13 433 10 4	13 350	16 350	16 400	6.85 50	7.14 54	6.25 63.6	6.45 65.4	6.88 57.6	8.31 59.3	5.37 52.8	6.02 55.9	6.41 71.4	5.77 53.1
Barium Beryllium Cadmium Calcium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	16 820 47	13 433 10	13 350 7.2	16 350 14 2.5	16 400 72 4.3	6.85 50 0.709 0.0538 J 149	7.14 54 0.743 0.0598 J 224	6.25 63.6 0.906 0.0811 J 316	6.45 65.4 0.798 0.0429 J 305	6.88 57.6 0.655 0.0567 J 224	8.31 59.3 0.9 0.079 J 410	5.37 52.8 0.925 0.0592 J 319	6.02 55.9 0.721 0.0744 J 269	6.41 71.4 0.952 0.106 J 410	5.77 53.1 0.695 0.0672 J 246
Barium Beryllium Cadmium Calcium Chromium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	16 820 47 7.50	13 433 10 4 10000	13 350 7.2 2.5	16 350 14 2.5 36	16 400 72 4.3 180	6.85 50 0.709 0.0538 J 149 20.9	7.14 54 0.743 0.0598 J 224 20.3	6.25 63.6 0.906 0.0811 J 316 26.3	6.45 65.4 0.798 0.0429 J 305 19.9	6.88 57.6 0.655 0.0567 J 224 20.4	8.31 59.3 0.9 0.079 J 410 18.8	5.37 52.8 0.925 0.0592 J 319 17.9	6.02 55.9 0.721 0.0744 J 269 18	6.41 71.4 0.952 0.106 J 410 18.7	5.77 53.1 0.695 0.0672 J 246 21.5
Barium Beryllium Cadmium Calcium Chromium Cobalt	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	16 820 47 7.50 	13 433 10 4 10000 20	13 350 7.2 2.5 30	16 350 14 2.5 36 30	16 400 72 4.3 180	6.85 50 0.709 0.0538 J 149 20.9	7.14 54 0.743 0.0598 J 224 20.3 10.8	6.25 63.6 0.906 0.0811 J 316 26.3	6.45 65.4 0.798 0.0429 J 305 19.9	6.88 57.6 0.655 0.0567 J 224 20.4 20.8	8.31 59.3 0.9 0.079 J 410 18.8	5.37 52.8 0.925 0.0592 J 319 17.9 8.61	6.02 55.9 0.721 0.0744 J 269 18	6.41 71.4 0.952 0.106 J 410 18.7	5.77 53.1 0.695 0.0672 J 246 21.5
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	16 820 47 7.50 1720	13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270	16 400 72 4.3 180 270	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7	6.25 63.6 0.906 0.0811 J 316 26.3 7	6.45 65.4 0.798 0.0429 J 305 19.9 9.01	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6	8.31 59.3 0.9 0.079 J 410 18.8 8	5.37 52.8 0.925 0.0592 J 319 17.9 8.61	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9	6.41 71.4 0.952 0.106 J 410 18.7 10.2	5.77 53.1 0.695 0.0672 J 246 21.5 11.4
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	16 820 47 7.50 1720	13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000	16 400 72 4.3 180 270	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	16 820 47 7.50 1720 450	13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	16 820 47 7.50 1720 450	13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6,250	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	16 820 47 7.50 1720 450 2000	13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	16 400 72 4.3 180 270 400 2000	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6,250 643	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180 531	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530 446	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-95-5 7440-02-0	16 820 47 7.50 1720 450 2000	13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 180 270 400 2000 310	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6.250 643 24.4	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180 531 21.1	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450 19.5	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530 446 21.1	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681 24.6	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646 18.5	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604 18.6	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573 21.6	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987 19.5	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780 576 24.3
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130	13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6,250 643 24.4 1,850	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180 531 21.1 1,780	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450 19.5 1,270	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530 446 21.1	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681 24.6 1,890	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646 18.5 1,370	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604 18.6 1,190	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573 21.6 1,080	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987 19.5 1,120	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780 576 24.3 1,190
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 180 270 400 2000 310 180	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6,250 643 24.4 1,850 0.25 J	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180 531 21.1 1,780 0.346 J	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450 19.5 1,270 0.432 J	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530 446 21.1 1,380 0.332 J	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681 24.6 1,890 0.237 J	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646 18.5 1,370 0.709 J	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604 18.6 1,190 0.3 J	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573 21.6 1,080 0.237 J	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987 19.5 1,120 0.548 J	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780 576 24.3 1,190 0.330 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.50 1720 450 2000 130	13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	16 400 72 4.3 180 270 400 2000 310	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6,250 643 24.4 1,850	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180 531 21.1 1,780	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450 19.5 1,270	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530 446 21.1	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681 24.6 1,890	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646 18.5 1,370	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604 18.6 1,190	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573 21.6 1,080	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987 19.5 1,120	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780 576 24.3 1,190
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 2000 310 180 180	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6,250 643 24.4 1,850 0.25 J 0.0207 J	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180 531 21.1 1,780 0.346 J 0.0391 J	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450 19.5 1,270 0.432 J 0.0862 J	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530 446 21.1 1,380 0.332 J 0.0587 J	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681 24.6 1,890 0.237 J < 0.0195	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646 18.5 1,370 0.709 J 0.13 J	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604 18.6 1,190 0.3 J 0.0486 J	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573 21.6 1,080 0.237 J 0.0414 J	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987 19.5 1,120 0.548 J 0.0726 J	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780 576 24.3 1,190 0.330 J 0.0317 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-5 7440-02-0 7440-02-7 7782-49-2 7440-22-4 7440-23-5	16 820 47 7.50 1720 450 2000 130 4 8.3	13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	16 400 72 4.3 180 270 400 2000 310 180 180	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6.250 643 24.4 1.850 0.25 J 0.0207 J 37.3 J	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5,180 531 21.1 1,780 0.346 J 0.0391 J 38.6 J	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450 19.5 1,270 0.432 J 0.0862 J 40.1 J	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4,530 446 21.1 1,380 0.332 J 0.0587 J 45.6 J	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681 24.6 1,890 0.237 J < 0.0195 39.9 J	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646 18.5 1,370 0.709 J 0.13 J 38.5 J	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604 18.6 1,190 0.3 J 0.0486 J 38.2 J	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573 21.6 1,080 0.237 J 0.0414 J 32 J	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987 19.5 1,120 0.548 J 0.0726 J 45.7 J	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780 576 24.3 1,190 0.330 J 0.0317 J 38.8 J
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-02-7 7782-49-2 7440-23-5 7440-28-0	16 820 47 7.50 1720 450 2000 130 4 8.3	13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 	16 400 72 4.3 180 270 400 2000 310 180 180	6.85 50 0.709 0.0538 J 149 20.9 11.4 26.1 30,800 13 6,250 643 24.4 1,850 0.25 J 0.0207 J 37.3 J 0.102 J	7.14 54 0.743 0.0598 J 224 20.3 10.8 19.7 26,600 11.4 5.180 531 21.1 1,780 0.346 J 0.0391 J 38.6 J 0.143 J	6.25 63.6 0.906 0.0811 J 316 26.3 7 14.8 21,700 18.2 3,790 450 19.5 1,270 0.432 J 0.0862 J 40.1 J 0.153 J	6.45 65.4 0.798 0.0429 J 305 19.9 9.01 14.7 23,200 10.9 4.530 446 21.1 1,380 0.332 J 0.0587 J 45.6 J 0.157 J	6.88 57.6 0.655 0.0567 J 224 20.4 20.8 23.6 29,000 12.3 5,710 681 24.6 1,890 0.237 J < 0.0195 39.9 J 0.114 J	8.31 59.3 0.9 0.079 J 410 18.8 8 16.7 22,300 30.5 4,020 646 18.5 1,370 0.709 J 0.13 J 38.5 J 0.189 J	5.37 52.8 0.925 0.0592 J 319 17.9 8.61 12.8 24,700 11.3 4,390 604 18.6 1,190 0.3 J 0.0486 J 38.2 J 0.127 J	6.02 55.9 0.721 0.0744 J 269 18 9.98 16.9 25,300 12 4,850 573 21.6 1,080 0.237 J 0.0414 J 32 J 0.165 J	6.41 71.4 0.952 0.106 J 410 18.7 10.2 16.6 25,900 25.3 4,300 987 19.5 1,120 0.548 J 0.0726 J 45.7 J 0.186 J	5.77 53.1 0.695 0.0672 J 246 21.5 11.4 19.4 31,100 12.6 5,780 576 24.3 1,190 0.330 J 0.0317 J 38.8 J 0.117 J

--: 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



Loc: Samp Field Sa Depth	mple ID			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EESB67 6/1/2017 OU1EESB67-S-1.00- 1-2	OU1EESB68 5/26/2017 OU1EESB68-S-0.17- 0.17-0.5	OU1EESB68 5/26/2017 OU1EESB68-S-0.50- 0.5-1	OU1EESB68 5/26/2017 OU1EESB68-S-1.00- 1-2	OU1EESB69 5/31/2017 OU1EESB69-S-0.17- 0.17-0.5	OU1EESB69 5/31/2017 OU1EESB69-S-0.50- 0.5-1	OU1EESB69 5/31/2017 OU1EESB69-S-1.00- 1-2	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.17- 0.17-0.5	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.50- 0.5-1	OU1EFSB01 6/5/2017 OU1EFSB01-S-1.00- 1-2
Sample P		375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
/olatile 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		-		-			0.05		0.028	0.034
Benzene	71-43-2	0.06	70	0.06	2.9	4.8			-		<u>0.11</u> < 0.0006	<u>0.064</u> < 0.0005	< 0.0004	<u>0.071</u> < 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		_	<u></u>					< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
ert-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			-		< 0.024	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.019
Toluene	108-88-3	0.7	36	0.7	100	100					< 0.001	< 0.001	< 0.0009	0.001 0.002 J	< 0.001	0.002 J
rans-1,2-Dichloroethene	156-60-5		36	0.7		100										
	10061-02-6	0.19			100						< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001
rans-1,3-Dichloropropene		0.47		0.47				-		-	< 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
(ylene (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 eld Sample ID			Unrestricted		375-6.8(b) &	OU1EESB67 6/1/2017 OU1EESB67-S-1.00-	OU1EESB68 5/26/2017 OU1EESB68-S-0.17-	OU1EESB68 5/26/2017 OU1EESB68-S-0.50-	OU1EESB68 5/26/2017 OU1EESB68-S-1.00-	OU1EESB69 5/31/2017 OU1EESB69-S-0.17-	OU1EESB69 5/31/2017 OU1EESB69-S-0.50-	OU1EESB69 5/31/2017 OU1EESB69-S-1.00-	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.17-	OU1EFSB01 6/5/2017 OU1EFSB01-S-0.50-	OU1EFSB01 6/5/2017 OU1EFSB01-S-1.00-
	Depth Interval			Use Soil	375-6.8(b) &	CP-51	1-2	0.17-0.5	0.5-1	1-2	0.17-0.5	0.5-1	1-2	0.17-0.5	0.5-1	1-2
Sa Parameter Name	mple Purpose Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	CP-51 Residential	Residential- Restricted	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
mivolatile Organic Compounds											•		•			•
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
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
3,4,6-Tetrachlorophenol	58-90-2	-	4	-			< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
4,5-Trichlorophenol 4,6-Trichlorophenol	95-95-4 88-06-2	0.1	10	-	100	-	< 0.019 < 0.019	< 0.024 < 0.024	< 0.02 < 0.02	< 0.021 < 0.021	< 0.021 < 0.021	< 0.02 < 0.02	< 0.019 < 0.019	< 0.023 < 0.023	< 0.02 < 0.02	< 0.019 < 0.019
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
1-Dimethylphenol	105-67-9				-		< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
1-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
1-Dinitrotoluene	121-14-2	-	-	-	-		< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
S-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
Chloronaphthalene Chlorophenol (o-Chlorophenol)	91-58-7 95-57-8		0.80	-	100	-	< 0.008 < 0.019	< 0.009 < 0.024	< 0.008 < 0.02	< 0.009 < 0.021	< 0.008 < 0.021	< 0.008 < 0.02	< 0.008 < 0.019	< 0.009 < 0.023	< 0.008 < 0.02	< 0.007 < 0.019
Methyl-Naphthalene	91-57-6	36.4			0.41		< 0.004	< 0.024	< 0.02	0.009 J	0.005 J	< 0.02	< 0.004	< 0.025	< 0.004	< 0.019
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
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
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'-Dichlorobenzidine	91-94-1	-	-		-	-	< 0.11	< 0.14	< 0.12	< 0.13	< 0.12	< 0.12	< 0.11	< 0.14	< 0.12	< 0.11
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
6-Dinitro-2-methylphenol (4,6-Dini Bromophenylphenylether	tro-o-cresol) 534-52-1 101-55-3	-	-	-	-	-	< 0.19	< 0.24	< 0.2	< 0.21	< 0.21	< 0.2	< 0.19	< 0.23	< 0.2	< 0.19
·Bromopnenylpnenyletner ·Chloroaniline	101-55-3	0.22	-		100	-	< 0.019 < 0.038	< 0.024 < 0.047	< 0.02 < 0.039	< 0.021 < 0.043	< 0.021 < 0.041	< 0.02 < 0.04	< 0.019 < 0.038	< 0.023 < 0.046	< 0.02 < 0.039	< 0.019 < 0.037
Chlorophenyl phenyl ether	7005-72-3						< 0.036	< 0.024	< 0.039	< 0.043	< 0.021	< 0.04	< 0.036	< 0.046	< 0.039	< 0.037
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
Nitroaniline	100-01-6	-			-		< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
Nitrophenol	100-02-7	0.1	7		-		< 0.19	< 0.24	< 0.2	< 0.21	< 0.21	< 0.2	< 0.19	< 0.23	< 0.2	< 0.19
cenaphthene	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
cenaphthylene	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
cetophenone hthracene	98-86-2 120-12-7	1000	-	100	100	100	< 0.019 < 0.004	< 0.024 0.005 J	< 0.020 < 0.004	< 0.021 < 0.004	< 0.021 0.007 J	< 0.02 < 0.004	< 0.019 < 0.004	< 0.023 0.005 J	< 0.020 < 0.004	< 0.019 < 0.004
razine	1912-24-9		-				< 0.038	< 0.047	< 0.039	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.004
enzaldehyde	100-52-7	-	-	-	_	-	< 0.075	< 0.095	< 0.078	< 0.086	< 0.083	< 0.079	< 0.075	< 0.092	< 0.078	< 0.074
enzo(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
enzo(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
enzo(b)fluoranthene	205-99-2	1.70	-	1	1	1	< 0.004	0.022 J	0.006 J	< 0.004	0.028	0.007 J	< 0.004	0.024	< 0.004	< 0.004
enzo(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
enzo(k)fluoranthene s(2-Chloroethoxy)methane	207-08-9 111-91-1	1.7	-	0.8	1	3.9	< 0.004 < 0.019	0.009 J < 0.024	< 0.004 < 0.02	< 0.004 < 0.021	0.014 J < 0.021	< 0.004 < 0.02	< 0.004 < 0.019	0.011 J < 0.023	< 0.004 < 0.02	< 0.004 < 0.019
s(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
s(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
s(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
utylbenzylphthalate	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
aprolactam	105-60-2	-	-	-	-		< 0.038	< 0.047	< 0.039	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.037
arbazole	86-74-8	-	-		-		< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
hrysene i n hutylohthalato	218-01-9	1	0.01	1	100	3.9	< 0.004	0.019 J	0.004 J	< 0.004	0.024	0.004 J	< 0.004	0.019 J	< 0.004	< 0.004
i-n-butylphthalate i-n-octylphthalate	84-74-2 117-84-0	8.1 120	0.01	-	100		< 0.075 < 0.075	< 0.095 < 0.095	< 0.078 < 0.078	< 0.086 < 0.086	< 0.083 < 0.083	< 0.079 < 0.079	< 0.075 < 0.075	< 0.092 < 0.092	< 0.078 < 0.078	< 0.074 < 0.074
ibenz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.004	< 0.005	< 0.004	< 0.004	< 0.003	< 0.004	< 0.004	< 0.005	< 0.076	< 0.004
ibenzofuran	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
ethylphthalate	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
imethyl 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
phenyl (Biphenyl, Phenyl benzene	·		60	400	400		< 0.019	< 0.024	< 0.020	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.020	< 0.019
uoranthene uorene	206-44-0 86-73-7	1000	30	100 30	100	100	< 0.004	0.027	0.005 J	< 0.004	0.037	0.005 J	< 0.004	0.034	< 0.004	< 0.004
exachlorobenzene	118-74-1	386 1.4	30	0.33	100 0.33	100 1.2	< 0.004 < 0.004	< 0.005 < 0.005	< 0.004 < 0.004	< 0.005 < 0.005	< 0.004 < 0.004	< 0.004 < 0.004				
exachlorobutadiene	87-68-3		-				< 0.019	< 0.003	< 0.02	< 0.004	< 0.004	< 0.02	< 0.019	< 0.003	< 0.02	< 0.019
xachlorocyclopentadiene	77-47-4	-	10	-	-		< 0.19	< 0.24	< 0.2	< 0.21	< 0.21	< 0.2	< 0.19	< 0.23	< 0.2	< 0.19
xachloroethane	67-72-1				-		< 0.038	< 0.047	< 0.039	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.037
leno(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
phorone	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
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
Nitrosodiphenylamine (Diphenylar phthalene	· · · · · · · · · · · · · · · · · · ·		20		100	100	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
ontnaiene obenzene	91-20-3 98-95-3	12 0.17	40	12	100 3.7	100 15	< 0.004 < 0.019	< 0.005 < 0.024	< 0.004 < 0.02	< 0.004 < 0.021	0.005 J < 0.021	< 0.004 < 0.02	< 0.004 < 0.019	< 0.005 < 0.023	< 0.004 < 0.02	< 0.004 < 0.019
Chloro-m-cresol	59-50-7				3. <i>t</i>		< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
ntachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.038	< 0.047	< 0.02	< 0.043	< 0.041	< 0.04	< 0.038	< 0.046	< 0.039	< 0.037
nenanthrene	85-01-8	1000		100	100	100	< 0.004	0.017 J	< 0.004	< 0.004	0.021	< 0.004	< 0.004	0.016 J	< 0.004	< 0.004
nenol	108-95-2	0.33	30	0.33	100	100	< 0.019	< 0.024	< 0.02	< 0.021	< 0.021	< 0.02	< 0.019	< 0.023	< 0.02	< 0.019
rene	129-00-0	1000	-	100	100	100	< 0.004	0.028	0.006 J	< 0.004	0.032	0.006 J	< 0.004	0.029	< 0.004	< 0.004



Parameter Na	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parameter Lode	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								0.0054	0.0040	0.0040				0.0040	0.0040	0.004
Aroclor 1016	12674-11-2	-	-		-	-		< 0.0051	< 0.0043	< 0.0046				< 0.0049	< 0.0042	< 0.004
Aroclor 1221 Aroclor 1232	11104-28-2 11141-16-5				-			< 0.0065	< 0.0055	< 0.0059				< 0.0063	< 0.0054	< 0.0051
Aroclor 1242	53469-21-9							< 0.011 < 0.0046	< 0.0095 < 0.0039	< 0.01 < 0.0042				< 0.011 < 0.0045	< 0.0094 < 0.0039	< 0.0089 < 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	-		<u></u>				< 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 delta BHC	319-85-7 319-86-8	0.09	0.6	0.036	0.072	0.36		< 0.00042	< 0.00036	< 0.00039				< 0.00041	< 0.00035	< 0.00034
DIELDRIN	60-57-1	0.25 0.1	0.04 0.006	0.04 0.005	100 0.039	100 0.2		< 0.00063 < 0.00046	< 0.00054 < 0.00039	< 0.00058 < 0.00042				< 0.00061 < 0.00045	< 0.00052 < 0.00038	< 0.0005 < 0.00037
Endosulfan I	959-98-8	102	0.006	2.4	4.8	24		< 0.00046	< 0.00039	< 0.00042				< 0.00045	< 0.00036	< 0.00037
Endosulfan II	33213-65-9	102		2.4	4.8	24		< 0.00046	< 0.00039	< 0.00020				< 0.0005	< 0.00038	< 0.00023
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	< 0.0007	< 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	7400.00.5		40000				40.000	00.400	04.000	00.400	47.000	40.400	47.400	40.700	45.400	10.500
Aluminum Antimony	7429-90-5 7440-36-0	-	10000 12		-		16,600 < 0.0951	22,400	21,300 0.231 J	22,400	17,200	18,100	17,400	12,700	15,100 < 0.112	13,500
Arsenic	7440-38-2	16	13	13	16	16	6.07	0.279 J 7.18	6.56	0.313 J 7.5	0.33 J 6.53	0.149 J 5.86	0.123 J 6.19	< 0.131 6.1	9.46	0.105 J 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
5.5EE.5	7420.00.0				2000		29,300	28,100	31,200	37,500	21,800	25,100	25,300	20,000	26,800	25,400
Iron	7439-89-6		63	63	400	400	12.1	21.3	16.1	15.5	44.9	16.9	12	14.8	13.7	10.4
Iron Lead	7439-92-1	450					5,360	6,050	6,500	7,400	4,470	5,140	5,600	3,690	4,760	4,720
Iron Lead Magnesium	7439-92-1 7439-95-4	-	-		-	-										
Iron Lead Magnesium Manganese	7439-92-1 7439-95-4 7439-96-5	2000	 1600	1600	2000	2000	689	1,010	768	691	761	670	560	577	1,160	694
Iron Lead Magnesium Manganese Nickel	7439-92-1 7439-95-4 7439-96-5 7440-02-0	 2000 130	 1600 30	1600 30	2000 140	2000 310	689 23.7	1,010 26.4	27.9	33.1	18.9	21	21.7	18.9	22.5	21.2
Iron Lead Magnesium Manganese Nickel Potassium	7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	 2000 130 	 1600 30 	1600 30 	2000 140 	2000 310 	689 23.7 1,450	1,010 26.4 2,050	27.9 2,160	33.1 2,690	18.9 1,600	21 1,800	21.7 2,210	18.9 1,220	22.5 1,540	21.2 1,310
Iron Lead Magnesium Manganese Nickel Potassium Selenium	7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	2000 130 4	 1600 30 3.9	1600 30 3.9	2000 140 36	2000 310 180	689 23.7 1,450 0.156 J	1,010 26.4 2,050 0.475 J	27.9 2,160 0.336 J	33.1 2,690 0.233 J	18.9 1,600 0.477 J	21 1,800 0.314 J	21.7 2,210 0.272 J	18.9 1,220 0.253 J	22.5 1,540 0.132 J	21.2 1,310 0.0980 J
Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	2000 130 4 8.3	1600 30 3.9 2	1600 30 3.9 2	2000 140 36 36	2000 310 180 180	689 23.7 1,450 0.156 J < 0.0229	1,010 26.4 2,050 0.475 J 0.0455 J	27.9 2,160 0.336 J < 0.0245	33.1 2,690 0.233 J < 0.0278	18.9 1,600 0.477 J 0.115 J	21 1,800 0.314 J 0.0523 J	21.7 2,210 0.272 J 0.028 J	18.9 1,220 0.253 J 0.0461 J	22.5 1,540 0.132 J < 0.0270	21.2 1,310 0.0980 J < 0.0203
Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	2000 130 4 8.3	 1600 30 3.9 2	1600 30 3.9 2	2000 140 36 36	2000 310 180 180	689 23.7 1,450 0.156 J < 0.0229 44.9 J	1,010 26.4 2,050 0.475 J 0.0455 J 48.9 J	27.9 2,160 0.336 J < 0.0245 44.9 J	33.1 2,690 0.233 J < 0.0278 59.0 J	18.9 1,600 0.477 J 0.115 J 38.4 J	21 1,800 0.314 J 0.0523 J 41 J	21.7 2,210 0.272 J 0.028 J 42.4 J	18.9 1,220 0.253 J 0.0461 J 49.4 J	22.5 1,540 0.132 J < 0.0270 50.8 J	21.2 1,310 0.0980 J < 0.0203 46.0 J
Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	 2000 130 4 8.3 	1600 30 3.9 2 5	1600 30 3.9 2 	2000 140 36 36 	2000 310 180 180 	689 23.7 1,450 0.156 J < 0.0229 44.9 J 0.120 J	1,010 26.4 2,050 0.475 J 0.0455 J 48.9 J 0.183 J	27.9 2,160 0.336 J < 0.0245 44.9 J 0.170 J	33.1 2,690 0.233 J < 0.0278 59.0 J 0.137 J	18.9 1,600 0.477 J 0.115 J 38.4 J 0.149 J	21 1,800 0.314 J 0.0523 J 41 J 0.148 J	21.7 2,210 0.272 J 0.028 J 42.4 J 0.129 J	18.9 1,220 0.253 J 0.0461 J 49.4 J 0.0958 J	22.5 1,540 0.132 J < 0.0270 50.8 J 0.131 J	21.2 1,310 0.0980 J < 0.0203 46.0 J 0.0756 J
Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	2000 130 4 8.3	 1600 30 3.9 2	1600 30 3.9 2	2000 140 36 36	2000 310 180 180	689 23.7 1,450 0.156 J < 0.0229 44.9 J	1,010 26.4 2,050 0.475 J 0.0455 J 48.9 J	27.9 2,160 0.336 J < 0.0245 44.9 J	33.1 2,690 0.233 J < 0.0278 59.0 J	18.9 1,600 0.477 J 0.115 J 38.4 J	21 1,800 0.314 J 0.0523 J 41 J	21.7 2,210 0.272 J 0.028 J 42.4 J	18.9 1,220 0.253 J 0.0461 J 49.4 J	22.5 1,540 0.132 J < 0.0270 50.8 J	21.2 1,310 0.0980 J < 0.0203 46.0 J

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 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
/olatile Organic Compounds																	
1,1 Dichloroethene	7	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	7	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	7	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	7	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 (Fre	eon 113) 7	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	7	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	8	37-61-6	-	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	1	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 (DE	BCP) 9	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	1	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-Dichlorob	penzene) 9	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	1	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	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002
Carbon disulfide		75-15-0	2.7			100		< 0.002	< 0.002	0.001 J	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0009	< 0.002
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			100		< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001	< 0.001	< 0.009	< 0.0009
Chloroform		67-66-3	0.37	12	0.37	10	49	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chloromethane (Methyl chloride)		74-87-3			0.37	10		< 0.001		< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001		< 0.009	< 0.0009
cis-1,2-Dichloroethene		156-59-2	0.25		0.25	59	100	< 0.002	< 0.002 < 0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 < 0.001	< 0.002	< 0.002
cis-1,3-Dichloropropene		10061-01-5	0.25		0.25	29		< 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			< 0.0009
Dibromochloromethane		124-48-1	-	10			-		< 0.001	< 0.001		< 0.0009	< 0.0009		< 0.001	< 0.0009	
Dichlorodifluoromethane (Freon 1		75-71-8	-			-	-	< 0.001 < 0.002	< 0.001	< 0.001	< 0.001 < 0.002	< 0.0009	< 0.0009	< 0.001 < 0.002	< 0.001	< 0.0009	< 0.0009 < 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 98-82-8	2.3		1	30 100	41	< 0.001	< 0.001	< 0.001	< 0.001 < 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009 < 0.0009
Isopropylbenzene		YLENES-MP		-			-	< 0.001	< 0.001	< 0.001		< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	
m,p-Xylenes			-	-			-	< 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		-			100	< 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 (Dichlorometh	,	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	< 0.001	< 0.0009	< 0.0009
styrene		100-42-5	-	300		-		< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
ert-Amyl methyl ether		994-05-8	-			-		< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Tertiary Butyl Alcohol		75-65-0						< 0.024	< 0.019	< 0.021	< 0.024	< 0.018	< 0.019	0.048 J	0.064 J	< 0.017	< 0.019
Tetrachloroethene		127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
Toluene		108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
rans-1,2-Dichloroethene		156-60-5	0.19	-	0.19	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
rans-1,3-Dichloropropene		10061-02-6	-	-		_	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
richloroethene (Trichloroethylene		79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 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
/inyl chloride (Chloroethene)	7	75-01-4	0.02		0.02	0.21	0.9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009
(ylene (total)	1	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.0009	< 0.0009



	Location ID							OU1EFSB02	OU1EFSB02	OU1EFSB02	OU1EFSB03	OU1EFSB03	OU1EFSB03	OU1EFSB04	OU1EFSB04	OU1EFSB04	OU1EFSB05
	Sample Date							6/2/2017	6/2/2017	6/2/2017	6/2/2017	6/2/2017	6/2/2017	6/5/2017	6/5/2017	6/5/2017	6/2/2017
	ield Sample ID Depth Interval				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EFSB02-S-0.17- 0.17-0.5	OU1EFSB02-S-0.50- 0.5-1	OU1EFSB02-S-1.00- 1-2	OU1EFSB03-S-0.17- 0.17-0.5	OU1EFSB03-S-0.50- 0.5-1	OU1EFSB03-S-1.00- 1-2	OU1EFSB04-S-0.17- 0.17-0.5	OU1EFSB04-S-0.50- 0.5-1	OU1EFSB04-S-1.00- 1-2	OU1EFSB05-S-0.17- 0.17-0.5
Sa	mple Purpose	Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name		Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
emivolatile Organic Compounds 2,4,5-Tetrachlorobenzene		5-94-3				_		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
4-Dioxane		23-91-1	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
3,4,6-Tetrachlorophenol		8-90-2	-			-	-	< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
4,5-Trichlorophenol	9	5-95-4	0.1	4		100		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
,4,6-Trichlorophenol		8-06-2	-	10	-	-	-	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
4-Dichlorophenol		20-83-2	0.4	20	-	100	-	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
4-Dimethylphenol 4-Dinitrophenol		05-67-9 1-28-5	0.2	20	-	100	-	< 0.02 < 0.37	< 0.019 < 0.33	< 0.02 < 0.35	< 0.023 < 0.41	< 0.018 < 0.33	< 0.018 < 0.33	< 0.02 < 0.37	< 0.019 < 0.34	< 0.019 < 0.34	< 0.019 < 0.35
4-Dinitrotoluene		21-14-2				-		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
6-Dinitrotoluene	6	06-20-2	0.17			1.03		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
-Chloronaphthalene		1-58-7				-		< 0.008	< 0.007	< 0.008	< 0.009	< 0.007	< 0.007	< 0.008	< 0.008	< 0.008	< 0.008
-Chlorophenol (o-Chlorophenol)		5-57-8	-	0.80		100		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
-Methyl-Naphthalene		1-57-6	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
-Methylphenol (o-Cresol) -Nitroaniline (o-Nitroaniline)		5-48-7 8-74-4	0.33 0.4		0.33	100	100	< 0.02 < 0.02	< 0.019 < 0.019	< 0.02 < 0.02	< 0.023 < 0.023	< 0.018 < 0.018	< 0.018 < 0.018	< 0.02 < 0.02	< 0.019 < 0.019	< 0.019 < 0.019	< 0.019 < 0.019
-Nitrophenol (o-Nitrophenol)		8-75-5	0.3	7		-		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
3'-Dichlorobenzidine		1-94-1		-		-		< 0.12	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12
Nitroaniline		9-09-2	0.5	-		-		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
,6-Dinitro-2-methylphenol (4,6-Dini		34-52-1		-		-		< 0.2	< 0.19	< 0.2	< 0.23	< 0.18	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19
-Bromophenylphenylether -Chloroaniline		01-55-3 06-47-8	0.22		-	100		< 0.02 < 0.041	< 0.019 < 0.037	< 0.02	< 0.023 < 0.045	< 0.018	< 0.018 < 0.037	< 0.02 < 0.041	< 0.019 < 0.038	< 0.019	< 0.019 < 0.038
-Chlorophenyl phenyl ether		005-72-3	0.22			100	-	< 0.041	< 0.037	< 0.039 < 0.02	< 0.045	< 0.037 < 0.018	< 0.037	< 0.041	< 0.038	< 0.038 < 0.019	< 0.038
-Methylphenol (p-Cresol)		06-44-5	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
-Nitroaniline	1	00-01-6				-		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
-Nitrophenol		00-02-7	0.1	7				< 0.2	< 0.19	< 0.2	< 0.23	< 0.18	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19
cenaphthene		3-32-9	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
cenaphthylene cetophenone		08-96-8 8-86-2	107		100	100	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
nthracene		0-00-2 20-12-7	1000	-	100	100	100	< 0.02 < 0.004	< 0.019 < 0.004	< 0.02 < 0.004	< 0.023 < 0.005	< 0.018 < 0.004	< 0.018 < 0.004	< 0.020 0.011 J	< 0.019 < 0.004	< 0.019 0.01 J	< 0.019 < 0.004
trazine		912-24-9				-		< 0.041	< 0.037	< 0.039	< 0.045	< 0.037	< 0.037	< 0.041	< 0.038	< 0.038	< 0.038
enzaldehyde	1	00-52-7				-		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
enzo(a)anthracene		6-55-3	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
Benzo(a)pyrene		0-32-8	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
enzo(b)fluoranthene enzo(g,h,i)perylene		05-99-2 91-24-2	1.70 1000		100	100	100	0.016 J 0.01 J	0.007 J < 0.004	0.013 J 0.007 J	0.008 J 0.005 J	< 0.004 < 0.004	< 0.004 < 0.004	0.008 J 0.005 J	< 0.004 < 0.004	0.005 J < 0.004	0.014 J 0.008 J
enzo(k)fluoranthene		07-08-9	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
is(2-Chloroethoxy)methane		11-91-1	-			_		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
is(2-Chloroethyl) ether	1	11-44-4				-		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
is(2-chloroisopropyl) ether		08-60-1				-		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
is(2-Ethylhexyl)phthalate		17-81-7	435	239		50		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
Butylbenzylphthalate Caprolactam		5-68-7 05-60-2	122		-	100		< 0.082 < 0.041	< 0.074	< 0.078	< 0.091 < 0.045	< 0.074	< 0.073	< 0.082 < 0.041	< 0.076	< 0.076	< 0.077 < 0.038
arbazole		6-74-8		-	-		-	< 0.041	< 0.037 < 0.019	< 0.039 < 0.02	< 0.045	< 0.037 < 0.018	< 0.037 < 0.018	< 0.041	< 0.038 < 0.019	< 0.038 < 0.019	< 0.038
hrysene		18-01-9	1		1	1	3.9	0.012 J	0.007 J	0.011 J	0.008 J	< 0.004	< 0.004	0.008 J	< 0.004	0.005 J	0.012 J
i-n-butylphthalate	8-	4-74-2	8.1	0.01		100		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
i-n-octylphthalate		17-84-0	120			100		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
bibenz(a,h)anthracene Dibenzofuran		3-70-3 32-64-9	1000		0.33	0.33 14	0.33 59	0.004 J	< 0.004	< 0.004	< 0.005 < 0.023	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
iethylphthalate		32-64-9 4-66-2	6.20 7.1	100		100	59 	< 0.02 < 0.082	< 0.019 < 0.074	< 0.02 < 0.078	< 0.023	< 0.018 < 0.074	< 0.018 < 0.073	< 0.02 < 0.082	< 0.019 < 0.076	0.023 J < 0.076	< 0.019 < 0.077
imethyl phthalate		31-11-3	27	200		100		< 0.082	< 0.074	< 0.078	< 0.091	< 0.074	< 0.073	< 0.082	< 0.076	< 0.076	< 0.077
iphenyl (Biphenyl, Phenyl benzene		2-52-4	_	60		-		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.020	< 0.019	< 0.019	< 0.019
uoranthene		06-44-0	1000	-	100	100	100	0.015 J	0.007 J	0.013 J	0.009 J	< 0.004	< 0.004	0.013 J	0.004 J	0.011 J	0.018 J
uorene		6-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	0.013 J	< 0.004	0.017 J	< 0.004
exachlorobenzene exachlorobutadiene		18-74-1 7-68-3	1.4		0.33	0.33	1.2	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
xachlorocyclopentadiene		7-68-3 7-47-4	-	10		-	-	< 0.02 < 0.2	< 0.019 < 0.19	< 0.02 < 0.2	< 0.023 < 0.23	< 0.018 < 0.18	< 0.018 < 0.18	< 0.02 < 0.2	< 0.019 < 0.19	< 0.019 < 0.19	< 0.019 < 0.19
exachloroethane		7-72-1	_			-		< 0.041	< 0.037	< 0.039	< 0.045	< 0.037	< 0.037	< 0.041	< 0.038	< 0.038	< 0.038
leno(1,2,3-cd)Pyrene		93-39-5	8.2		0.5	0.5	0.5	0.006 J	< 0.004	0.007 J	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J
phorone		8-59-1	4.4	-		100		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
Nitrosodi-n-propylamine		21-64-7	-			-		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
Nitrosodiphenylamine (Diphenyla		6-30-6		20				< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
phthalene robenzene		1-20-3 8-95-3	12 0.17	40	12	100 3.7	100 15	< 0.004 < 0.02	< 0.004 < 0.019	< 0.004 < 0.02	< 0.005 < 0.023	< 0.004 < 0.018	< 0.004 < 0.018	0.013 J < 0.02	< 0.004 < 0.019	0.1 < 0.019	< 0.004 < 0.019
Chloro-m-cresol		9-50-7				3.7		< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
ntachlorophenol		7-86-5	0.8	0.8	0.8	2.4	6.7	< 0.041	< 0.037	< 0.039	< 0.045	< 0.037	< 0.037	< 0.041	< 0.038	< 0.038	< 0.038
nenanthrene		5-01-8	1000	-	100	100	100	0.009 J	0.005 J	0.007 J	< 0.005	< 0.004	< 0.004	0.02 J	< 0.004	0.032	0.009 J
nenol		08-95-2	0.33	30	0.33	100	100	< 0.02	< 0.019	< 0.02	< 0.023	< 0.018	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019
rene	1:	29-00-0	1000		100	100	100	0.016 J	0.008 J	0.014 J	0.008 J	< 0.004	< 0.004	0.011 J	0.004 J	0.01 J	0.019 J



Parameter Nar	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose Parame Code		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-				-		< 0.0045	< 0.004	< 0.0042	< 0.005	< 0.004	< 0.004	< 0.0044	< 0.0041	< 0.0041	< 0.0042
Aroclor 1221	11104-28-				-		< 0.0057	< 0.0051	< 0.0054	< 0.0064	< 0.0051	< 0.0051	< 0.0057	< 0.0052	< 0.0053	< 0.0053
Aroclor 1232	11141-16-		-		-	-	< 0.0099	< 0.009	< 0.0094	< 0.011	< 0.0088	< 0.0088	< 0.0099	< 0.0091	< 0.0092	< 0.0093
Aroclor 1242	53469-21-		-		-	-	< 0.0041	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Aroclor 1248	12672-29-		-		-	-	< 0.0041	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Aroclor 1254	11097-69-		-		-	-	0.029	< 0.0037	< 0.0039	< 0.0046	< 0.0036	< 0.0036	< 0.0041	< 0.0038	< 0.0038	< 0.0038
Aroclor 1260 Aroclor 1262	11096-82-				-	-	< 0.0061	< 0.0055	< 0.0058	< 0.0068	< 0.0054	< 0.0054	< 0.006	< 0.0056	< 0.0056	< 0.0057
Aroclor 1268	37324-23- 11100-14-						< 0.0041 < 0.0041	< 0.0037 < 0.0037	< 0.0039 < 0.0039	< 0.0046 < 0.0046	< 0.0036 < 0.0036	< 0.0036 < 0.0036	< 0.0041 < 0.0041	< 0.0038 < 0.0038	< 0.0038 < 0.0038	< 0.0038 < 0.0038
Pesticides	11100-14-	-					₹ 0.0041	₹ 0.0037	₹ 0.0039	₹ 0.0046	< 0.0036	< 0.0036	₹ 0.0041	< 0.0036	< 0.0036	₹ 0.0036
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	0.00041 0.00043 J	< 0.00037	0.0005 JF	0.00000 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	< 0.00037	< 0.00041	< 0.00048	< 0.00037	< 0.00030	< 0.00041	< 0.0004	< 0.0004	< 0.0004
Aldrin	309-00-2	0.19	0.14	0.005	0.019	0.097	< 0.00044	< 0.00019	< 0.0002	< 0.0003	< 0.00019	< 0.00019	< 0.00040	< 0.00019	< 0.0004	< 0.0004
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
peta 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	< 0.00041	< 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-	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-		-		-		< 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 HEPTACHLOR EPOXIDE	76-44-8 1024-57-3	0.38 0.02	0.14	0.042	0.42 0.077	2.1	< 0.00021 0.00038 JP	< 0.00019	< 0.0002	< 0.00023 < 0.00023	< 0.00019	< 0.00019 < 0.00019	< 0.00021	< 0.00019	< 0.0002 < 0.0002	< 0.0002
METHOXYCHLOR	72-43-5	900	1.2		100	-	< 0.0021	< 0.00019 < 0.0019	< 0.0002 < 0.002	< 0.0023	< 0.00019 < 0.0019	< 0.0019	< 0.00021 < 0.0021	< 0.00019 < 0.0019	< 0.002	< 0.0002 < 0.002
TOXAPHENE	8001-35-2		1.2				< 0.017	< 0.019	< 0.002	< 0.019	< 0.016	< 0.015	< 0.0021	< 0.016	< 0.002	< 0.002
Metals	0001 00 2						V 0.017	V 0.010	V 0.010	V 0.013	V 0.010	V 0.013	V 0.017	V 0.010	V 0.010	< 0.010
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
ron	7439-89-6	450	63		2000 400	400	24,400	24,600	25,700	21,900	28,000	26,400	20,500	21,400	23,500	25,900
Lead Magnesium	7439-92-1 7439-95-4	450	63	63	400	400	50.1 5,000	16.8 4,600	20.1 4,460	10.1 3,830	11 5,280	8.62 5,000	4,080	14.1 4,010	14.3 4,310	21.2 5,010
Manganese	7439-96-5	2000	1600	1600	2000	2000	904	4,600	862	3,830	631	461	915	4,010 809	4,310	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	7440-02-0						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
variadiani		2400		109	2200	10000	83.2	69.6	70.7	53.7	72.1	61.5	67.9	66.7	71.5	70.1
Zinc	7440-66-6	2480	109	100	2200		00.2	00.0	7 0.11	00.7	7 = 1 1		41.14	00.1	7 110	

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



Parameter Name	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose	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
olatile 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 (Fre	,	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 (DI 1,2-Dibromoethane		96-12-8	-			-	-	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
		106-93-4				400	400	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
1,2-Dichlorobenzene (o-Dichlorob 1,2-Dichloroethane		95-50-1 107-06-2	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-Dichloropropane		78-87-5	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 1,3-Dichlorobenzene		78-87-5 541-73-1	2.4	700	2.4	17	49	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001 < 0.001
1,4-Dichlorobenzene		541-73-1 106-46-7	1.8	20	1.8	9.8	13	< 0.001 < 0.001	< 0.0009 < 0.0009	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.059 < 0.059	< 0.055 < 0.055	< 0.001 < 0.001	< 0.001
7,4-Dichlorobenzene 2-Butanone (Methyl ethyl ketone)		78-93-3	0.3	100			100										
z-Butanone (Methyl ethyl ketone) 2-Hexanone		78-93-3 591-78-6	0.3	100	0.12	100	100	0.006 J < 0.003	0.004 J < 0.003	0.019 < 0.004	0.007 J < 0.004	0.007 J < 0.004	0.006 J < 0.003	< 0.24 < 0.18	< 0.22 < 0.17	0.006 J < 0.003	0.005 J < 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							< 0.41	< 0.39		
Benzene		71-43-2	0.06	70	0.05	2.9	4.8	<u>0.081</u> < 0.0005	<u>0.066</u> < 0.0005	<u>0.21</u> < 0.0007	<u>0.1</u> < 0.0006	<u>0.098</u> < 0.0006	<u>0.088</u> < 0.0006	< 0.41	< 0.028	<u>0.076</u> < 0.0005	<u>0.058</u> < 0.0006
Bromochloromethane		74-97-5			0.00	2.9	4.0	< 0.003	< 0.0009	< 0.0007	< 0.000	< 0.000	< 0.000	< 0.059	< 0.055	< 0.0003	< 0.000
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	-			_		< 0.001	< 0.003	< 0.003	< 0.001	< 0.001	< 0.002	< 0.12	< 0.11	< 0.001	< 0.002
Carbon disulfide		75-15-0	2.7			100		< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.059	< 0.055	< 0.002	< 0.002
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 1		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	1	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
sopropylbenzene	9	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
n,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	7	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	1	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	1	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 (Dichlorometh	ane)	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
-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	1	100-42-5	-	300		-		< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
ert-Amyl methyl ether		994-05-8				-		< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
ertiary Butyl Alcohol	7	75-65-0						< 0.021	< 0.019	< 0.028	< 0.024	0.024 J	< 0.023	< 1.2	< 1.1	< 0.022	< 0.023
etrachloroethene	1	127-18-4	1.3	2	1.3	5.5	19	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
oluene	1	108-88-3	0.7	36	0.7	100	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
rans-1,2-Dichloroethene	1	156-60-5	0.19		0.19	100	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
rans-1,3-Dichloropropene		10061-02-6				-		< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
richloroethene (Trichloroethylen	e) 7	79-01-6	0.47	2	0.47	10	21	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
Frichlorofluoromethane (Freon 11		75-69-4	-			-		< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.002	< 0.12	< 0.11	< 0.002	< 0.002
/inyl chloride (Chloroethene)	7	75-01-4	0.02		0.02	0.21	0.9	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001
(ylene (total)	1	1330-20-7	1.60	0.26	0.26	100	100	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.059	< 0.055	< 0.001	< 0.001



	Location ID Sample Date						OU1EFSB05 6/2/2017	OU1EFSB05 6/2/2017	OU1EFSB06 6/2/2017	OU1EFSB06 6/2/2017	OU1EFSB06 6/2/2017	OU1EFSB06 6/2/2017	OU1EFSB07 6/2/2017	OU1EFSB07 6/2/2017	OU1EFSB07 6/2/2017	OU1EFSB08 6/2/2017
	eld Sample ID Depth Interval			Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EFSB05-S-0.50- 0.5-1	OU1EFSB05-S-1.00- 1-2	OU1EFSB06-S-0.17- 0.17-0.5	OU1EFSB06-S-0.50- 0.5-1	OU1EFSB06-S-1.00- 1-2	OU1EFSB06-SD-0.50- 0.5-1	OU1EFSB07-S-0.17- 0.17-0.5	OU1EFSB07-S-0.50- 0.5-1	OU1EFSB07-S-1.00- 1-2	OU1EFSB08-S-0.17- 0.17-0.5
Sar	mple Purpose Parameter	375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted										
mivolatile Organic Compounds 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
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	< 0.022
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
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
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
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
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
4-Dinitrophenol 4-Dinitrotoluene	51-28-5 121-14-2	0.2	20		100	-	< 0.39 < 0.086	< 0.36 < 0.08	< 0.43 < 0.095	< 0.4 < 0.088	< 0.36 < 0.08	< 0.37 < 0.082	< 0.38 < 0.085	< 0.39 < 0.088	< 0.37 < 0.082	< 0.4 < 0.088
6-Dinitrotoluene	606-20-2	0.17			1.03		< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.002	< 0.021	< 0.022	< 0.021	< 0.022
Chloronaphthalene	91-58-7	-	-		-		< 0.009	< 0.008	< 0.01	< 0.009	< 0.008	< 0.008	< 0.008	< 0.009	< 0.008	< 0.009
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
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
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
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
Nitrophenol (o-Nitrophenol) 3'-Dichlorobenzidine	88-75-5 91-94-1	0.3	7		-		< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
3'-Dicnioropenziaine Nitroaniline	91-94-1	0.5	-		-	-	< 0.13 < 0.086	< 0.12 < 0.08	< 0.14 < 0.095	< 0.13 < 0.088	< 0.12 < 0.08	< 0.12 < 0.082	< 0.13 < 0.085	< 0.13 < 0.088	< 0.12 < 0.082	< 0.13 < 0.088
6-Dinitro-2-methylphenol (4,6-Dinit				-	_	-	< 0.000	< 0.08	< 0.095	< 0.000	< 0.08	< 0.062	< 0.065	< 0.22	< 0.062	< 0.22
Bromophenylphenylether	101-55-3				-		< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
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
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
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
Nitroaniline	100-01-6 100-02-7		7		-	-	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
-Nitrophenol cenaphthene	83-32-9	0.1 98	20	20	100	100	< 0.22 < 0.004	< 0.2 < 0.004	< 0.24 < 0.005	< 0.22 < 0.004	< 0.2 < 0.004	< 0.21 < 0.004	< 0.21 < 0.004	< 0.22 < 0.004	< 0.21 < 0.004	< 0.22 < 0.004
cenaphthylene	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
etophenone	98-86-2	-	-		-	-	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
nthracene	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
razine	1912-24-9		-		-		< 0.043	< 0.04	< 0.048	< 0.044	< 0.04	< 0.041	< 0.042	< 0.044	< 0.041	< 0.044
enzaldehyde	100-52-7	-	-		-		< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
enzo(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
enzo(a)pyrene enzo(b)fluoranthene	50-32-8 205-99-2	22 1.70	2.6	1	1	1	0.01 J 0.013 J	< 0.004 0.005 J	0.038 0.056	0.006 J 0.009 J	0.008 J 0.011 J	0.007 J 0.009 J	0.017 J 0.029	0.005 J 0.008 J	< 0.004 < 0.004	< 0.004 < 0.004
enzo(g,h,i)perylene	191-24-2	1000	-	100	100	100	0.013 3	< 0.004	0.036	0.009 J	0.006 J	0.009 J	0.029 0.013 J	< 0.004	< 0.004	< 0.004
enzo(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
s(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
is(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
s(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
s(2-Ethylhexyl)phthalate	117-81-7	435	239		50		< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
utylbenzylphthalate	85-68-7	122	-		100	-	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
aprolactam arbazole	105-60-2 86-74-8	-	-				< 0.043 < 0.022	< 0.04 < 0.02	< 0.048 < 0.024	< 0.044 < 0.022	< 0.04 < 0.02	< 0.041 < 0.021	< 0.042 < 0.021	< 0.044 < 0.022	< 0.041 < 0.021	< 0.044 < 0.022
hrysene	218-01-9	1	-	1	1	3.9	0.011 J	0.004 J	0.046	0.008 J	0.008 J	0.008 J	0.021	0.006 J	< 0.021	< 0.022
i-n-butylphthalate	84-74-2	8.1	0.01	-	100		< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
i-n-octylphthalate	117-84-0	120		-	100	-	< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
benz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	0.009 J	< 0.004	0.01 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
benzofuran	132-64-9	6.20	-	7	14	59	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
ethylphthalate	84-66-2	7.1	100		100		< 0.086	< 0.08	< 0.095	< 0.088	< 0.08	< 0.082	< 0.085	< 0.088	< 0.082	< 0.088
nethyl phthalate bhenyl (Biphenyl, Phenyl benzene	131-11-3) 92-52-4	27	200 60		100		< 0.086 < 0.022	< 0.08 < 0.02	< 0.095 < 0.024	< 0.088 < 0.022	< 0.08 < 0.02	< 0.082 < 0.021	< 0.085 < 0.021	< 0.088 < 0.022	< 0.082 < 0.021	< 0.088 < 0.022
oranthene	206-44-0	1000		100	100	100	0.022 0.017 J	0.005 J	0.024	0.022 0.01 J	0.013 J	0.013 J	0.021	0.012 J	< 0.021	0.022 0.005 J
orene	86-73-7	386	30	30	100	100	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
xachlorobenzene	118-74-1	1.4	-	0.33	0.33	1.2	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
achlorobutadiene	87-68-3	-			-		< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
achlorocyclopentadiene	77-47-4		10				< 0.22	< 0.2	< 0.24	< 0.22	< 0.2	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22
achloroethane	67-72-1	-	-				< 0.043	< 0.04	< 0.048	< 0.044	< 0.04	< 0.041	< 0.042	< 0.044	< 0.041	< 0.044
eno(1,2,3-cd)Pyrene	193-39-5 78-59-1	8.2	-	0.5	0.5	0.5	0.016 J	< 0.004	0.025	< 0.004	0.005 J	0.005 J	0.011 J	< 0.004	< 0.004	< 0.004
horone litrosodi-n-propylamine	78-59-1 621-64-7	4.4	-		100		< 0.022 < 0.022	< 0.02 < 0.02	< 0.024 < 0.024	< 0.022 < 0.022	< 0.02 < 0.02	< 0.021 < 0.021	< 0.021 < 0.021	< 0.022 < 0.022	< 0.021 < 0.021	< 0.022 < 0.022
iitrosodiphenylamine (Diphenylan			20		-		< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
phthalene	91-20-3	12		12	100	100	< 0.004	0.004 J	0.006 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
obenzene	98-95-3	0.17	40		3.7	15	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
Chloro-m-cresol	59-50-7	-			-		< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
ntachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.043	< 0.04	< 0.048	< 0.044	< 0.04	< 0.041	< 0.042	< 0.044	< 0.041	< 0.044
enanthrene	85-01-8	1000	-	100	100	100	0.011 J	< 0.004	0.042	0.006 J	0.009 J	0.007 J	0.024	0.005 J	< 0.004	< 0.004
nenol	108-95-2	0.33	30	0.33	100	100	< 0.022	< 0.02	< 0.024	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.021	< 0.022
rene	129-00-0	1000	-	100	100	100	0.018 J	0.006 J	0.074	0.011 J	0.012 J	0.012 J	0.033	0.01 J	< 0.004	0.006 J



Parameter Nam	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose ne	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								0.0040	0.0040	0.0054	0.0047	0.0040	0.0045	0.0040	0.0047	0.0044	0.0040
Aroclor 1016		12674-11-2 11104-28-2	-	-	-	-	-	< 0.0046	< 0.0043	< 0.0051	< 0.0047	< 0.0043	< 0.0045	< 0.0046	< 0.0047	< 0.0044	< 0.0048
Aroclor 1221 Aroclor 1232		11104-28-2	-	<u>-</u>	-			< 0.0059 < 0.01	< 0.0055	< 0.0066 < 0.011	< 0.0061 < 0.011	< 0.0055 < 0.0097	< 0.0057 < 0.01	< 0.0058 < 0.01	< 0.006	< 0.0057 < 0.0099	< 0.0061 < 0.011
Aroclor 1242		53469-21-9	-	-	-			< 0.0042	< 0.0096 < 0.0039	< 0.0047	< 0.0043	< 0.004	< 0.01	< 0.001	< 0.01 < 0.0043	< 0.0099	< 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			<u></u>			< 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	1	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	< 0.00047	< 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 AL DELIVOE		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	0.1	6		0.28	1.3	< 0.00077	< 0.00072	< 0.00085	< 0.00078	< 0.00073	< 0.00075	< 0.00076	< 0.00079	< 0.00074	< 0.0008
gamma BHC (Lindane) gamma Chlordane		58-89-9 5103-74-2	14		0.1	0.28	1.3	< 0.00022 < 0.00022	< 0.0002	< 0.00024	< 0.00022 < 0.00022	< 0.00021	< 0.00021	< 0.00022 0.0014 JP	< 0.00022	< 0.00021 < 0.00021	< 0.00023 < 0.00023
HEPTACHLOR		76-44-8	0.38	0.14	0.042	0.42	2.1	< 0.00022	< 0.0002 < 0.0002	< 0.00024 < 0.00024	< 0.00022	< 0.00021 < 0.00021	< 0.00021 < 0.00021	< 0.00022	< 0.00057 V < 0.00022	< 0.00021	< 0.00023
HEPTACHLOR EPOXIDE		1024-57-3	0.02	0.14	0.042	0.42		< 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	< 0.002	< 0.02	< 0.0022	< 0.017	< 0.018	< 0.018	< 0.018	< 0.017	< 0.0025
/letals								4 0.010	V 0.011	V 0.02	V 0.010	V 0.017	V 0.010	V 0.010	V 0.010	V 0.011	V 0.010
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	1	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	-	400		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 Zinc		7440-62-2	2490	39	100	100	10000	25.4	22.2	26.8	22.8	26.9	25	23.5	22.8	26.4	18.5
LIIIU		7440-66-6	2480	109 0.18	109 0.18	2200 0.81	10000 0.81	74.7 0.0993 J	66.7 0.0731 J	80.7 0.317	61.2 0.14	74.6 0.418	63.4 0.137	68.3 0.0915 J	74.3 0.041 J	75.1 0.0399 J	76.5 0.0373 J
Mercury	1-	7439-97-6	0.73														

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 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
/olatile Organic Compounds					,												
1,1 Dichloroethene	7	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	7	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	1	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	1	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 (Fre	eon 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	1	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	8	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	1	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 (DE	BCP) 9	96-12-8	-			-		< 0.002	< 0.002		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,2-Dibromoethane	1	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-Dichlorob	penzene) 9	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	< 0.0006	< 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	-					< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.002
Carbon disulfide		75-15-0	2.7			100		< 0.002	0.005 J	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0009	< 0.002	< 0.002	< 0.002
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			100		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.0009
Chloroform		67-66-3	0.37	12	0.37	10	49	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chloromethane (Methyl chloride)		74-87-3			U.37 	10		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.0009
cis-1,2-Dichloroethene		156-59-2	0.25		0.25	59	100	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
cis-1,3-Dichloropropene		10061-01-5	0.25		0.25	39		< 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	< 0.0009		< 0.001	< 0.0009
Dibromochloromethane		124-48-1	-	10		-			< 0.001	< 0.001					< 0.001		
Dichlorodifluoromethane (Freon 1		75-71-8	-			-		< 0.001 < 0.002	< 0.001	< 0.001	< 0.001 < 0.002	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.001	< 0.0009 < 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 Isopropylbenzene		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
lsopropylbenzene		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 (Dichlorometh	,	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
ert-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
ertiary 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
rans-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
rans-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
richloroethene (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
/inyl chloride (Chloroethene)	7	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
(ylene (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



	Interval	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
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 2,4,6-Trichlorophenol	95-95-4 88-06-2	0.1	10	-	100		< 0.022 < 0.022	< 0.02 < 0.02	< 0.022 < 0.022	< 0.019 < 0.019	< 0.02 < 0.02	< 0.021 < 0.021	< 0.018 < 0.018	< 0.018 < 0.018	< 0.02 < 0.02	< 0.019 < 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 2-Chloronaphthalene	606-20-2 91-58-7	0.17	-		1.03		< 0.022 < 0.009	< 0.02 < 0.008	< 0.022 < 0.009	< 0.019 < 0.008	< 0.02 < 0.008	< 0.021 < 0.009	< 0.018 < 0.007	< 0.018 < 0.007	< 0.02 < 0.008	< 0.019 < 0.008
2-Chlorophenol (o-Chlorophenol)	95-57-8		0.80		100		< 0.009	< 0.00	< 0.009	< 0.019	< 0.00	< 0.009	< 0.007	< 0.007	< 0.006	< 0.008
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 3-Nitroaniline	91-94-1 99-09-2	0.5	-				< 0.13 < 0.086	< 0.12 < 0.079	< 0.13 < 0.086	< 0.12 < 0.078	< 0.12 < 0.082	< 0.13 < 0.085	< 0.11 < 0.074	< 0.11 < 0.073	< 0.12 < 0.078	< 0.12 < 0.077
3-เหเนอสาเเเาย 4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-c		0.5		-			< 0.22	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 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) 4-Nitroaniline	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-Nitrophenol	100-01-6 100-02-7	0.1	7	-			< 0.086 < 0.22	< 0.079 < 0.2	< 0.086 < 0.22	< 0.078 < 0.19	< 0.082 < 0.2	< 0.085 < 0.21	< 0.074 < 0.18	< 0.073 < 0.18	< 0.078 < 0.2	< 0.077 < 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 Benzaldehyde	1912-24-9 100-52-7	-	-	-			< 0.043 < 0.086	< 0.039 < 0.079	< 0.043 0.11 J	< 0.039 < 0.078	< 0.041 < 0.082	< 0.043 < 0.085	< 0.037 < 0.074	< 0.037 < 0.073	< 0.039 < 0.078	< 0.039 < 0.077
Benzo(a)anthracene	56-55-3	1	-	1	1	1	0.007 J	0.011 J	0.024	< 0.078	< 0.002	< 0.004	< 0.004	< 0.073	< 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 bis(2-Chloroethoxy)methane	207-08-9 111-91-1	1.7	-	0.8	1 -	3.9	< 0.004 < 0.022	0.009 J < 0.02	0.017 J < 0.022	< 0.004 < 0.019	< 0.004 < 0.02	< 0.004 < 0.021	< 0.004 < 0.018	< 0.004 < 0.018	< 0.004 < 0.02	< 0.004 < 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
bis(2-Ethylhexyl)phthalate	117-81-7	435	239		50		< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
Butylbenzylphthalate	85-68-7	122	-		100		< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
Caprolactam	105-60-2 86-74-8	-	-	-	-	-	< 0.043	< 0.039	< 0.043	< 0.039	< 0.041	< 0.043	< 0.037	< 0.037	< 0.039	< 0.039
Carbazole Chrysene	218-01-9	1		1	1	3.9	< 0.022 0.008 J	< 0.02 0.015 J	< 0.022 0.033	< 0.019 0.005 J	< 0.02 < 0.004	< 0.021 < 0.004	< 0.018 < 0.004	< 0.018 < 0.004	< 0.02 0.005 J	< 0.019 < 0.004
Di-n-butylphthalate	84-74-2	8.1	0.01	-	100		< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
Di-n-octylphthalate	117-84-0	120	-	-	100	-	< 0.086	< 0.079	< 0.086	< 0.078	< 0.082	< 0.085	< 0.074	< 0.073	< 0.078	< 0.077
Dibenz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.004	0.005 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Dibenzofuran Diothylphthalata	132-64-9	6.20	400	7	14	59	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
Diethylphthalate Dimethyl phthalate	84-66-2 131-11-3	7.1 27	100 200	-	100 100		< 0.086 < 0.086	< 0.079 < 0.079	< 0.086 < 0.086	< 0.078 < 0.078	< 0.082 < 0.082	< 0.085 < 0.085	< 0.074 < 0.074	< 0.073 < 0.073	< 0.078 < 0.078	< 0.077 < 0.077
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4		60	-			< 0.022	< 0.079	< 0.022	< 0.078	< 0.020	< 0.005	< 0.074	< 0.073	< 0.020	< 0.017
Fluoranthene	206-44-0	1000	-	100	100	100	0.012 J	0.026	0.057	0.007 J	0.006 J	0.006 J	< 0.004	< 0.004	0.009 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 77-47-4			-	-		< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
Hexachlorocyclopentadiene Hexachloroethane	67-72-1		10		-		< 0.22 < 0.043	< 0.2 < 0.039	< 0.22 < 0.043	< 0.19 < 0.039	< 0.2 < 0.041	< 0.21 < 0.043	< 0.18 < 0.037	< 0.18 < 0.037	< 0.2 < 0.039	< 0.19 < 0.039
Indeno(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	< 0.043	0.008 J	0.023	< 0.004	< 0.041	< 0.043	< 0.037	< 0.037	0.004 J	< 0.004
Isophorone	78-59-1	4.4	-	-	100		< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
N-Nitrosodi-n-propylamine	621-64-7	-		-	-		< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6		20		-		< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
Naphthalene Nitrobenzene	91-20-3 98-95-3	12 0.17	40	12	100 3.7	100 15	< 0.004 < 0.022	< 0.004	0.023	< 0.004	0.005 J	0.004 J	< 0.004	< 0.004	< 0.004 < 0.02	0.004 J < 0.019
o-Chloro-m-cresol	59-50-7	0.17		-	3.7	15	< 0.022 < 0.022	< 0.02 < 0.02	< 0.022 < 0.022	< 0.019 < 0.019	< 0.02 < 0.02	< 0.021 < 0.021	< 0.018 < 0.018	< 0.018 < 0.018	< 0.02	< 0.019
Pentachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.043	< 0.039	< 0.043	< 0.039	< 0.041	< 0.043	< 0.037	< 0.037	< 0.02	< 0.039
Phenanthrene	85-01-8	1000	-	100	100	100	0.006 J	0.011 J	0.039	0.005 J	< 0.004	< 0.004	< 0.004	< 0.004	0.005 J	< 0.004
Phenol	108-95-2	0.33	30	0.33	100	100	< 0.022	< 0.02	< 0.022	< 0.019	< 0.02	< 0.021	< 0.018	< 0.018	< 0.02	< 0.019
Pyrene	129-00-0	1000		100	100	100	0.013 J	0.022	0.053	0.006 J	0.006 J	0.006 J	< 0.004	< 0.004	0.008 J	< 0.004



Parameter Nai	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose me	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		674-11-2	-			-	-	< 0.0047	< 0.0042	< 0.0047	< 0.0042	< 0.0045	< 0.0046	< 0.004	< 0.004	< 0.0042	< 0.0042
Aroclor 1221		104-28-2	-		-	-		< 0.006	< 0.0054	< 0.006	< 0.0054	< 0.0057	< 0.0059	< 0.0051	< 0.0051	< 0.0054	< 0.0053
Aroclor 1232		141-16-5	-			-	-	< 0.01	< 0.0094	< 0.01	< 0.0093	< 0.0099	< 0.01	< 0.0089	< 0.0089	< 0.0094	< 0.0093
Aroclor 1242		469-21-9				-	-	< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Aroclor 1248 Aroclor 1254		672-29-6 097-69-1				-		< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Aroclor 1260		096-82-5				-	-	< 0.0043 < 0.0063	< 0.0039 < 0.0057	< 0.0043 < 0.0064	< 0.0039 < 0.0057	< 0.0041 < 0.0061	< 0.0042 < 0.0063	< 0.0037 < 0.0054	< 0.0037 < 0.0055	< 0.0039 < 0.0058	< 0.0038 < 0.0057
Aroclor 1262		324-23-5	-		-			< 0.0043	< 0.0037	< 0.0043	< 0.0037	< 0.0061	< 0.0063	< 0.0037	< 0.0037	< 0.0039	< 0.0037
Aroclor 1268		100-14-4	-			_		< 0.0043	< 0.0039	< 0.0043	< 0.0039	< 0.0041	< 0.0042	< 0.0037	< 0.0037	< 0.0039	< 0.0038
Pesticides		100 14 4						₹ 0.0043	< 0.0059	< 0.0043	< 0.0039	V 0.0041	₹ 0.0042	< 0.0031	V 0.0007	V 0.0039	< 0.0000
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		-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		-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		9-00-2	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		9-84-6	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	51	03-71-9	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	31	9-85-7	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	31	9-86-8	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	95	9-98-8	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		213-65-9	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		31-07-8	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		-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		21-93-4	-			-		< 0.00043	< 0.00039	< 0.00043	< 0.00038	< 0.00041	< 0.00042	< 0.00037	< 0.00036	< 0.00039	< 0.00038
ENDRIN KETONE		494-70-5	-	-	-		-	< 0.00078	< 0.0007	0.0013 J	< 0.0007	< 0.00074	0.0018 J	< 0.00067	< 0.00066	< 0.00071	< 0.0007
gamma BHC (Lindane)		-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 HEPTACHLOR		03-74-2 i-44-8	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 EPOXIDE		124-57-3	0.38 0.02	0.14	0.042	0.42 0.077	2.1	< 0.00022 < 0.00022	< 0.0002 < 0.0002	< 0.00022 < 0.00022	< 0.0002 < 0.0002	< 0.00021 < 0.00021	< 0.00022 < 0.00022	< 0.00019 < 0.00019	< 0.00019 < 0.00019	< 0.0002 < 0.0002	< 0.0002 < 0.0002
METHOXYCHLOR		!-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		01-35-2						< 0.018	< 0.016	< 0.018	< 0.016	< 0.0021	< 0.0022	< 0.016	< 0.015	< 0.016	< 0.016
Metals								V 0.010	V 0.010	V 0.010	V 0.010	V 0.017	V 0.010	V 0.010	V 0.010	V 0.010	4 0.010
Aluminum	74	29-90-5		10000				12,000	15,000	17,600	18,500	16,900	16,700	18,800	19,400	16,700	15,900
Antimony	74	40-36-0		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	74	40-38-2	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	74	40-39-3	820	433	350	350	400	44.1	55.8	80.3	70.6	74.4	59.8	84	89.9	56.8	50
Beryllium	74	40-41-7	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	74	40-43-9	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		40-70-2	-	10000		-	-	710	1,740	1,310	340	494	441	571	943	458	756
Chromium		40-47-3			30	36	180	13	17	17	18.8	18.4	19.1	22.6	22.7	18.4	21.7
Cobalt		40-48-4		20		30		9.14	10.2	10	10.9	11.1	13.7	14.1	14.7	10.7	11.1
Copper		40-50-8	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 Lead		39-89-6	450	63	63	2000 400	400	20,300 9.84	25,000 11.7	22,600 42.2	26,200 15.4	27,600 11.7	30,000 13.6	32,500 E 14	33,300 14.5	26,800 15.5	30,900 11.8
		39-92-1				400	400		5,070	4,370		5,220					5,810
Magnesium Manganese		39-95-4 39-96-5	2000		1600	2000	2000	3,960 479	5,070		4,900	662	5,100 585	6,460 641	6,340 755	5,190	658
Nickel		40-02-0	130	1600 30	30	140	310	18.5	20.7	943 21.7	763 22.5	23.4	26.9	30.8	31.4	673 22.4	24.6
Potassium		40-02-0						1,450	2,140	1,540	1,750	2,000	1,990	2,650	2,970	1,660	1,420
Selenium		82-49-2	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		40-22-4	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		40-23-5		-		-		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		40-28-0	-	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		40-62-2		39		100		16.7	23.3	40	28	25.2	23.6	25.2	27.3	25.7	24.4
		40-66-6	2480	109	109	2200	10000	52	64.2	90	81.7	75.8	76.5	84.2	85.1	72.4	73.6
Zinc	/ 4	-0 -00-0	2400														

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						OU1EFSB11	OU1EFSB12	OU1EFSB12	OU1EFSB12	OU1EFSB12
Sample Da							6/5/2017	6/5/2017	6/5/2017	6/5/2017	6/5/2017
Field Sample				Unrestricted		375-6.8(b) &	OU1EFSB11-S-1.00-	OU1EFSB12-S-0.17-	OU1EFSB12-S-0.50-	OU1EFSB12-S-1.00-	OU1EFSB12-SD-0.50-
Depth Interv		07F C 0/L\ 0	27F C 0/h) 9	Use Soil	375-6.8(b) & CP-51	CP-51	1-2 REG	0.17-0.5 REG	0.5-1 REG	1-2 REG	0.5-1 FD
Sample Purpos Parameter Name	se Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	Residential	Residential- Restricted	KEG	KEG	REG	KEG	F.D.
/olatile Organic Compounds	Jour	0. 000	OF OTTER	Objectives	rtesiaeritiai	restricted					
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	<u>0.074</u>	< 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 II Sample Dat Field Sample II Depth Interva Sample Purpos Parameter Name	e O al	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 2,4,5-Trichlorophenol	58-90-2	- 01		-	400	-	< 0.081	< 0.084	< 0.073	< 0.075	< 0.077
2,4,6-Trichlorophenol	95-95-4	0.1	4		100		< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2.4-Dichlorophenol	88-06-2 120-83-2	- 0.4	10 20				< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2,4-Dichlorophenol	105-67-9	0.4			100	-	< 0.02	< 0.021	< 0.018	< 0.019	< 0.019
2,4-Dinitrophenol	51-28-5	0.2	20	-	100		< 0.02	< 0.021 < 0.38	< 0.018	< 0.019 < 0.34	< 0.019
2,4-Dinitrotoluene	121-14-2						< 0.37 < 0.081	< 0.36	< 0.33 < 0.073	< 0.075	< 0.35 < 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		-		1.03		< 0.02	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	0.4	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	-				< 0.12	< 0.084	< 0.11	< 0.075	< 0.12
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1				-		< 0.061	< 0.064	< 0.18	< 0.075	< 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	< 0.042	< 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	0.024	< 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							OU1EFSB11	OU1EFSB12	OU1EFSB12	OU1EFSB12	OU1EFSB12
Sample				House state to 1		075 0 0(1) 0	6/5/2017	6/5/2017	6/5/2017	6/5/2017	6/5/2017
Field Samp Depth Inte				Unrestricted Use Soil	375-6.8(b) &	375-6.8(b) & CP-51	OU1EFSB11-S-1.00- 1-2	OU1EFSB12-S-0.17- 0.17-0.5	OU1EFSB12-S-0.50- 0.5-1	OU1EFSB12-S-1.00- 1-2	OU1EFSB12-SD-0.50 0.5-1
Sample Pur		375-6.8(b) &	375-6.8(b) &	Cleanup	CP-51	Residential-	REG	REG	REG	REG	FD
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	Residential	Restricted					
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	109	100 2200	40000	22.9	38.8	27.3	25.9	30.7
7:				100	2200	10000	86.2	65.7	62.7	84.2	66.2
Zinc Mercury	7440-66-6 7439-97-6	2480 0.73	109 0.18	0.18	0.81	0.81	0.0303 J	0.105 J	0.0407 J	0.0350 J	0.0393 J

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



San Field S Deptl	cation ID uple Date ample ID uniterval Purpose 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- I 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
rotatilo organio compoundo					400												
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 1,1,2-Trichloroethane	79-34-5 79-00-5	0.6	-	-	35	-					-	-	-	-		-	-
		6	-	-		-					-	-		-			
1,1,2-Trichlorotrifluoroethane (Freon 113) 1,1-Dichloroethane	76-13-1 75-34-3	-	-	0.27	100	26						-	-		-		-
1,2,3-Trichlorobenzene	87-61-6	0.27	20	0.27	19					-	-	-	-	-		-	-
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		-		_	_	< 0.041	C 0.037	C 0.009	C 0.039	C 0.007	C 0.037	C 0.037	C 0.033	V 0.000	C 0.04	C 0.030
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	< 0.041	< 0.007		C 0.039		C 0.037		C 0.033		C 0.04	
1,2-Dichloropropane	78-87-5	0.02	700			J.1	<u>.</u>										-
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											
sopropylbenzene	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						-	-	-			-
-Xylene	95-47-6		-		-	-					-	-		-			
Styrene	100-42-5		300	-	-	-					-	-		-			
ert-Amyl methyl ether	994-05-8		-		-	-					-			-			-
ertiary Butyl Alcohol	75-65-0		-	-	-	-						-					
etrachloroethene	127-18-4	1.3	2	1.3	5.5	19							-	-			-
Toluene	108-88-3	0.7	36	0.7	100	100					-			-			-
rans-1,2-Dichloroethene	156-60-5	0.19	-	0.19	100	100					-	-	-	-			
rans-1,3-Dichloropropene	10061-02-6		_		-	_								-			-
richloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21					-	-	-	-			
richlorofluoromethane (Freon 11)	75-69-4		-		-	-						-		-			
/inyl chloride (Chloroethene)	75-01-4	0.02	-	0.02	0.21	0.9						-	-	-			
(ylene (total)	1330-20-7	1.60	0.26	0.26	100	100	-				-	-		-	-		



Location I	ID						CBS1-SS-1	CBS1-SS-2	CBS1-SS-3	CBS1-SS-4	CBS1-SS-5	CBS1-SS-5	CBS1-SS-6	CBS1-SS-7	CBS1-SS-8	CBS1-SS-9	CBS3-SS-1
Sample Dat							3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/7/2006
Field Sample II				Unrestricted		375-6.8(b) &	SS-CBS1-01 2-2.5	SS-CBS1-02 2-2.5	SS-CBS1-03 2-2.5	SS-CBS1-04 2-2.5	SS-CBS1-05 2-2.5	SS-CBS1-105 2-2.5	SS-CBS1-06 2-2.5	SS-CBS1-07 2-2.5	SS-CBS1-08 2-2.5	SS-CBS1-09 2-2.5	SS-CBS3-1 2-2.5
Depth Interva Sample Purpos		375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) &	CP-51 Residential-	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	CP-51 Residentia	Restricted											
ivolatile Organic Compounds		_	1		1					<u> </u>	<u> </u>	<u> </u>	1		<u> </u>	1	
1,5-Tetrachlorobenzene	95-94-3				-	-											
Dioxane	123-91-1	0.1	0.1	0.1	9.8	13											
4,6-Tetrachlorophenol	58-90-2	-	-	-	-	-											
,5-Trichlorophenol ,6-Trichlorophenol	95-95-4 88-06-2	0.1	10	-	100	-	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074 < 0.037	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
-Dichlorophenol	120-83-2	0.4	20		100	_	< 0.041 < 0.041	< 0.037 < 0.037	< 0.039 < 0.039	< 0.039 < 0.039	< 0.037	< 0.037 < 0.037	< 0.037 < 0.037	< 0.039 < 0.039	< 0.038 < 0.038	< 0.04 < 0.04	< 0.038 < 0.038
Dimethylphenol	105-67-9					-	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.037	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12
-Dinitrophenol	51-28-5	0.2	20		100		< 0.81	< 0.74	< 0.79	< 0.77	< 0.74	< 0.74	< 0.74	< 0.77	< 0.76	< 0.8	< 0.77
-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
-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
hloronaphthalene	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
hlorophenol (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
lethyl-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
lethylphenol (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
litroaniline (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
litrophenol (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
-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
litroaniline	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
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
Bromophenylphenylether Chloroaniline	101-55-3 106-47-8	0.22			100	-	< 0.041 < 0.041	< 0.037 < 0.037	< 0.039 < 0.039	< 0.039 < 0.039	< 0.037 < 0.037	< 0.037 < 0.037	< 0.037 < 0.037	< 0.039 < 0.039	< 0.038 < 0.038	< 0.04 < 0.04	< 0.038 < 0.038
Chlorophenyl phenyl ether	7005-72-3	0.22	_		100	-	< 0.041	< 0.037 < 0.037	< 0.039	< 0.039	< 0.037 < 0.037	< 0.037	< 0.037 < 0.037	< 0.039	< 0.038	< 0.04 < 0.04	< 0.038
Methylphenol (p-Cresol)	106-44-5	0.33		0.33	34	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
Vitroaniline	100-44-5	0.33		0.33			< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
litrophenol	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
enaphthene	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
enaphthylene	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
etophenone	98-86-2		-		-	-									-		
hracene	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
azine	1912-24-9		-		-	-											
nzaldehyde	100-52-7				-	-											
nzo(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
nzo(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
nzo(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
nzo(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
nzo(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
(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
(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
(2-chloroisopropyl) ether	108-60-1	405		-		-	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
(2-Ethylhexyl)phthalate tylbenzylphthalate	117-81-7 85-68-7	435 122	239		50 100	-	< 0.081 < 0.081	< 0.074 < 0.074	< 0.079 < 0.079	< 0.077 < 0.077	< 0.074 < 0.074	< 0.074 < 0.074	< 0.074 < 0.074	< 0.077 < 0.077	< 0.076 < 0.076	< 0.08 < 0.08	< 0.077 < 0.077
prolactam	105-60-2		_			-				< 0.077		< 0.074					
rbazole	86-74-8		_		-	-	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.1 J	< 0.038	< 0.04	< 0.038
ysene	218-01-9	1	_	1	1	3.9	< 0.041	< 0.037	0.049 J	0.044 J	< 0.037	< 0.037	< 0.037	0.94	< 0.038	< 0.04	< 0.038
n-butylphthalate	84-74-2	8.1	0.01	-	100		< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
n-octylphthalate	117-84-0	120	-		100	-	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
enz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.077 J	< 0.038	< 0.04	< 0.038
enzofuran	132-64-9	6.20		7	14	59	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.071 J	< 0.038	< 0.04	< 0.038
thylphthalate	84-66-2	7.1	100		100	-	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
nethyl phthalate	131-11-3	27	200	-	100	-	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
henyl (Biphenyl, Phenyl benzene)	92-52-4		60														
oranthene	206-44-0	1000		100	100	100	0.042 J	< 0.037	0.067 J	0.071 J	< 0.037	< 0.037	0.047 J	2	0.048 J	< 0.04	< 0.038
orene	86-73-7	386	30	30	100	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.12 J	< 0.038	< 0.04	< 0.038
kachlorobenzene	118-74-1	1.4	-	0.33	0.33	1.2	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
achlorobutadiene	87-68-3				-	-	< 0.081	< 0.074	< 0.079	< 0.077	< 0.074	< 0.074	< 0.074	< 0.077	< 0.076	< 0.08	< 0.077
achlorocyclopentadiene	77-47-4		10		-	-	< 0.2	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.19
achloroethane	67-72-1				-		< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
eno(1,2,3-cd)Pyrene ehorone	193-39-5	8.2	-	0.5	0.5	0.5	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	0.29	< 0.038	< 0.04	< 0.038
	78-59-1 621-64-7	4.4	-		100		< 0.041	< 0.037 < 0.037	< 0.039 < 0.039	< 0.039 < 0.039	< 0.037 < 0.037	< 0.037 < 0.037	< 0.037	< 0.039 < 0.039	< 0.038 < 0.038	< 0.04 < 0.04	< 0.038 < 0.038
litrosodi-n-propylamine litrosodiphenylamine (Diphenylamine)	86-30-6		20		-	-	< 0.041 < 0.041	< 0.037	< 0.039 0.04 J	< 0.039	< 0.037 < 0.037	< 0.037	< 0.037 < 0.037	< 0.039	< 0.038	< 0.04 < 0.04	< 0.038
phthalene	91-20-3	12		12	100	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
robenzene	98-95-3	0.17	40		3.7	15	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
hloro-m-cresol	59-50-7						< 0.041	< 0.074	< 0.039	< 0.039	< 0.074	< 0.074	< 0.074	< 0.039	< 0.076	< 0.08	< 0.038
ntachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.2	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.19
enanthrene	85-01-8	1000		100	100	100	< 0.041	< 0.037	0.041 J	0.046 J	< 0.037	< 0.037	< 0.037	2.3	< 0.038	< 0.04	< 0.038
enol	108-95-2	0.33	30	0.33	100	100	< 0.041	< 0.037	< 0.039	< 0.039	< 0.037	< 0.037	< 0.037	< 0.039	< 0.038	< 0.04	< 0.038
rene	129-00-0	1000	_	100	100	100	0.042 J	< 0.037	0.074 J	0.081 J	< 0.037	< 0.037	0.051 J	2.1	0.056 J	< 0.04	< 0.038



Location I	D					CBS1-SS-1	CBS1-SS-2	CBS1-SS-3	CBS1-SS-4	CBS1-SS-5	CBS1-SS-5	CBS1-SS-6	CBS1-SS-7	CBS1-SS-8	CBS1-SS-9	CBS3-SS-1
Sample Dat						3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/9/2006	3/7/2006
Field Sample II				Unrestricted		6.8(b) & SS-CBS1-01	SS-CBS1-02	SS-CBS1-03	SS-CBS1-04	SS-CBS1-05	SS-CBS1-105	SS-CBS1-06	SS-CBS1-07	SS-CBS1-08	SS-CBS1-09	SS-CBS3-1
Depth Interva Sample Purpos		375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup		P-51 2-2.5 dential- REG	2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 FD	2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 REG
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives		stricted	0		0				0	0	0	0
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		8.9										
4,4-DDT	50-29-3	136	0.0033	0.0033		7.9										
Aldrin	309-00-2	0.19	0.14	0.005		.097										
alpha BHC	319-84-6	0.02	0.04	0.02		0.48							-			
alpha Chlordane	5103-71-9	2.9	1.30	0.094		4.2				-			-			
beta BHC	319-85-7	0.09	0.6	0.036		0.36				-	-					
delta BHC	319-86-8	0.25	0.04	0.04		100										
DIELDRIN	60-57-1	0.1	0.006	0.005		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		2.1				-			-	-		
HEPTACHLOR EPOXIDE	1024-57-3	0.02	-		0.077									-	-	
METHOXYCHLOR	72-43-5	900	1.2		100					-						
TOXAPHENE					-											
	8001-35-2		-							-						
Metals											 I	1				
Aluminum	7429-90-5		10000													
Aluminum Antimony	7429-90-5 7440-36-0		10000 12		-										 	
Aluminum Antimony Arsenic	7429-90-5 7440-36-0 7440-38-2	 16	10000 12 13	13	16	 16	 								 	
Aluminum Antimony Arsenic Barium	7429-90-5 7440-36-0 7440-38-2 7440-39-3	 16 820	10000 12 13 433	13 350	16 350	 16 400					 	 			 	
Aluminum Antimony Arsenic Barium Beryllium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7	 16 820 47	10000 12 13 433	13 350 7.2	16 350 14	 16 400 72									 	
Aluminum Antimony Arsenic Barium Beryllium Cadmium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820 47 7.50	10000 12 13 433 10	13 350 7.2 2.5	16 350 14 2.5										 	
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50	10000 12 13 433 10 4 10000	13 350 7.2 2.5	16 350 14 2.5		 				 				 	
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50	10000 12 13 433 10 4 10000	13 350 7.2 2.5 30	16 350 14 2.5 36		 				 	 			 	
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	 16 820 47 7.50 	10000 12 13 433 10 4 10000 	13 350 7.2 2.5 30	16 350 14 2.5 36 30		 				 	 		 	 	
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50 1720	10000 12 13 433 10 4 10000	13 350 7.2 2.5 30	16 350 14 2.5 36 30 270											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	10000 12 13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 36 30 270 2000										 	
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720 450	10000 12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4		10000 12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 4000											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5		10000 12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-92-1 7439-95-4 7439-96-5 7440-02-0		10000 12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400 2000											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	 16 820 47 7.50 1720 450 2000 130	10000 12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-4 7439-95-5 7440-02-0 7440-09-7 7782-49-2	 16 820 47 7.50 1720 450 2000 130 4	10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Silver Sodium	7429-90-5 7440-36-0 7440-38-2 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5		10000 12 13 433 10 4 10000 20 50 63 1600 30 2	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver Sodium Thallium	7429-90-5 7440-36-0 7440-38-2 7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	13 350 7.2 2.5 30 50 63 1600 30 2 1	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-62-2		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5 39	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 100											
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver Sodium Thallium	7429-90-5 7440-36-0 7440-38-2 7440-38-2 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0		10000 12 13 433 10 4 10000 20 50 63 1600 30 3.9 2 5	13 350 7.2 2.5 30 50 63 1600 30 2 1	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 100											

Notes: All values are provided in milligrams per kilogram (mg/kg)

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
L: Beault detected between the presting limit and the protect detection limit.

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 ield Sample ID Depth Interval ample Purpose Parameter Code	375-6.8(b) & CP-51 POG		Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residentia	375-6.8(b) & CP-51 Residential- Il 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
olatile Organic Compounds																	
1,1 Dichloroethene	75-35-4	0.33	_	0.33	100	100											
,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 (DBC					-	-						-	-				-
1,2-Dibromoethane	106-93-4	-			_	-											
1,2-Dichlorobenzene (o-Dichlorober		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	~ 0.001		~ J.UJJ						~ U.UUU		
1,2-Dichloropropane	78-87-5	0.02	700	0.02	2.3	3.1		-			-	-		-		-	
1,3-Dichlorobenzene	541-73-1	2.4	700	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
	106-46-7		20			13											
1,4-Dichlorobenzene		1.8		1.8	9.8	100	< 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											-	
2-Hexanone	591-78-6		-		-												
1-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)					_												
Dichlorodinuoromethane (Freon 12) Diisopropyl ether	108-20-3		_			-		-		-		-		-		-	
	637-92-3		-						-			-	-	-			
Ethyl-t-butylether	637-92-3 100-41-4		-	-					-	-	-	-	-	-	-	-	-
Ethylbenzene		1	-	1	30	41	••							-			
sopropylbenzene	98-82-8	2.3	-		100		••				-		-	-			
n,p-Xylenes	XYLENES-M		-	-	-						-	-	-			-	
Methyl acetate	79-20-9		-		-												-
Methyl-t-butyl ether	1634-04-4	0.93	-	0.93	62	100					-	-	-	-			-
Methylcyclohexane	108-87-2		-	-	-												
Methylene chloride (Dichloromethan		0.05	12	0.05	51	100					-	-	-		-	-	
-Xylene	95-47-6		-	-	-						-	-	-			-	
tyrene	100-42-5		300		-	-											-
rt-Amyl methyl ether	994-05-8				-												
ertiary Butyl Alcohol	75-65-0		-		-	-											
etrachloroethene	127-18-4	1.3	2	1.3	5.5	19						-					-
oluene	108-88-3	0.7	36	0.7	100	100								-			
rans-1,2-Dichloroethene	156-60-5	0.19	-	0.19	100	100										-	
rans-1,3-Dichloropropene	10061-02-6	-	_			-							-				
richloroethene (Trichloroethylene)	79-01-6	0.47	2	0.47	10	21						-	-				
richlorofluoromethane (Freon 11)	75-69-4				-												
'inyl chloride (Chloroethene)	75-01-4	0.02	_	0.02	0.21	0.9				-							
,. s. nonae (omoroemene)	1330-20-7	1.60	0.26	0.02	100	100											



Location I	ID						CBS3-SS-2	CBS3-SS-21	CBS3-SS-22	CBS3-SS-23	CBS3-SS-24	CBS3-SS-3	CBS3-SS-4	CBS3-SS-4	CBS3-SS-5	CBS3-SS-6	CBS3-SS-7
Sample Date							3/7/2006	3/21/2006	3/21/2006	3/21/2006	3/21/2006	3/8/2006	3/7/2006	3/7/2006	3/7/2006	3/7/2006	3/7/2006
Field Sample I	ID			Unrestricted		375-6.8(b) &	SS-CBS3-2	SS-CBS3-21	SS-CBS3-22	SS-CBS3-23	SS-CBS3-24	SS-CBS3-3	SS-CBS3-104	SS-CBS3-4	SS-CBS3-5	SS-CBS3-6	SS-CBS3-7
Depth Interv		075 0 0/1-) 0	075 0 0/1 \ 0	Use Soil	075 0 0/1 \ 0	CP-51	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5
Sample Purpos Parameter Name	se Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	375-6.8(b) & CP-51 Residentia	Residential- Restricted	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG
ivolatile Organic Compounds	Jour	0. 0.1.00	OI STILL	Objectives	or or residentia	Restricted		<u> </u>		<u> </u>					<u> </u>	<u> </u>	
4,5-Tetrachlorobenzene	95-94-3	-	-		-						-						
Dioxane	123-91-1	0.1	0.1	0.1	9.8	13						-					
4,6-Tetrachlorophenol	58-90-2				-	-											
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
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
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
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
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
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
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
hloronaphthalene	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
hlorophenol (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
ethyl-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
ethylphenol (o-Cresol)	95-48-7 88-74-4	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
itroaniline (o-Nitroaniline) itrophenol (o-Nitrophenol)	88-74-4 88-75-5	0.4	7		-		< 0.037 < 0.037	< 0.04 < 0.04	< 0.039 < 0.039	< 0.038 < 0.038	< 0.038 < 0.038	< 0.039 < 0.039	< 0.038 < 0.038	< 0.037 < 0.037	< 0.036 < 0.036	< 0.041 < 0.041	< 0.039 < 0.039
-Dichlorobenzidine	91-94-1	0.3	<u>'</u>		-	-	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039
itroaniline	99-09-2	0.5			-	-	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.073	< 0.12	< 0.12
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
romophenylphenylether	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
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
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
1ethylphenol (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
litroaniline	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
itrophenol	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
enaphthene	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
enaphthylene	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
etophenone	98-86-2	-	-		-	-						-					
hracene	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
azine	1912-24-9		-		-	-		-				-					
nzaldehyde	100-52-7		-		-	-											
nzo(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	<u>1.1</u>	<u>12</u>
nzo(a)pyrene nzo(b)fluoranthene	50-32-8 205-99-2	1.70	2.6	1	1	1	< 0.037 < 0.037	0.14 J 0.18 J	0.38 0.52	< 0.038 < 0.038	0.16 J 0.24	< 0.039 < 0.039	< 0.038 < 0.038	< 0.037 < 0.037	0.064 J 0.077 J	0.77 0.92	8.6
nzo(g,h,i)perylene	191-24-2	1000	-	100	100	100	< 0.037	0.18 J	0.52	< 0.038	0.24 0.12 J	< 0.039	< 0.038	< 0.037	0.077 J	0.92	5.1
nzo(k)fluoranthene	207-08-9	1.7	_	0.8	100	3.9	< 0.037	0.094 J	0.29	< 0.038	0.12 J 0.085 J	< 0.039	< 0.038	< 0.037	0.04 J	0.59	4.1
(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
(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
(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
(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
ylbenzylphthalate	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
prolactam	105-60-2		-		-	-							-				
bazole	86-74-8		-		-	-	< 0.037	0.04 J	0.043 J	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	0.3	2.6
ysene	218-01-9	1		1	1	3.9	< 0.037	0.18 J	0.44	< 0.038	0.23	< 0.039	< 0.038	< 0.037	0.1 J	<u>1.1</u>	<u>11</u>
n-butylphthalate	84-74-2	8.1	0.01		100		< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078
n-octylphthalate	117-84-0	120	-		100	-	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078
enz(a,h)anthracene	53-70-3	1000	-	0.33	0.33	0.33	< 0.037	< 0.04	0.09 J	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	0.15 J	2.1
enzofuran	132-64-9	6.20	-	7	14	59	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	0.13 J	1
thylphthalate	84-66-2	7.1	100		100		< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078
hethyl phthalate	131-11-3	27	200		100	-	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078
henyl (Biphenyl, Phenyl benzene)	92-52-4	4000	60	400	400	400											 2F
oranthene	206-44-0 86-73-7	1000 386	30	100 30	100 100	100 100	< 0.037 < 0.037	0.36 < 0.04	0.66	< 0.038 < 0.038	0.39	< 0.039 < 0.039	< 0.038 < 0.038	< 0.037 < 0.037	0.2 < 0.036	2.4 0.23	25
achlorobenzene	118-74-1	1.4	30	0.33	0.33	1.2	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039
achlorobutadiene	87-68-3	1.4	_	0.33	U.33 		< 0.037	< 0.08	< 0.039	< 0.038	< 0.038	< 0.039	< 0.036	< 0.037	< 0.036	< 0.041	< 0.039
achlorocyclopentadiene	77-47-4		10		-		< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.062	< 0.19
achloroethane	67-72-1	-	-	-	_	-	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039
no(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	< 0.037	0.081 J	0.25	< 0.038	0.11 J	< 0.039	< 0.038	< 0.037	0.038 J	0.46	5
horone	78-59-1	4.4	-		100		< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039
itrosodi-n-propylamine	621-64-7	-	-		-		< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039
itrosodiphenylamine (Diphenylamine)	86-30-6		20				< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039
ohthalene	91-20-3	12	-	12	100	100	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	0.18 J	1
obenzene	98-95-3	0.17	40		3.7	15	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	< 0.039
chloro-m-cresol	59-50-7		-		-	-	< 0.073	< 0.08	< 0.078	< 0.077	< 0.077	< 0.078	< 0.075	< 0.074	< 0.073	< 0.082	< 0.078
ntachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.18	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.21	< 0.19
enanthrene	85-01-8	1000	-	100	100	100	< 0.037	0.29	0.42	< 0.038	0.28	< 0.039	< 0.038	< 0.037	0.21	2.4	22
enol	108-95-2	0.33	30	0.33	100	100	< 0.037	< 0.04	< 0.039	< 0.038	< 0.038	< 0.039	< 0.038	< 0.037	< 0.036	< 0.041	0.044 J
ene	129-00-0	1000	-	100	100	100	< 0.037	0.37	0.83	< 0.038	0.43	< 0.039	< 0.038	< 0.037	0.2	2.3	23



Location ID						CBS3-SS-2	CBS3-SS-21	CBS3-SS-22	CBS3-SS-23	CBS3-SS-24	CBS3-SS-3	CBS3-SS-4	CBS3-SS-4	CBS3-SS-5	CBS3-SS-6	CBS3-SS-7
Sample Date	•					3/7/2006	3/21/2006	3/21/2006	3/21/2006	3/21/2006	3/8/2006	3/7/2006	3/7/2006	3/7/2006	3/7/2006	3/7/2006
Field Sample ID				Unrestricted	375-6.		SS-CBS3-21	SS-CBS3-22	SS-CBS3-23	SS-CBS3-24	SS-CBS3-3	SS-CBS3-104	SS-CBS3-4	SS-CBS3-5	SS-CBS3-6	SS-CBS3-7
Depth Interval	ll			Use Soil	CP		2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 FD	2-2.5 REG	2-2.5 REG	2-2.5 REG	2-2.5 REG
Sample Purpose Parameter Name	Parameter Code	375-6.8(b) & CP-51 POG	375-6.8(b) & CP-51 PER	Cleanup Objectives	375-6.8(b) & Resid		REG	REG	REG	REG	KEG	FU	KEG	KEG	REG	REG
Polychlorinated Biphenyls	Code	CF-51 FOG	CF-51 FER	Objectives	CF-31 Residential Resi	icteu		<u> </u>								
	12674-11-2															
	11104-28-2		-		-											
				-	_			-				-	-		-	
	11141-16-5		-									-				-
	53469-21-9		-		-			-		-						
	12672-29-6		-					-		-				-	-	
	11097-69-1		-					-		-		-		-	-	
	11096-82-5		-					-		-					-	
	37324-23-5		-					-			-					
	11100-14-4		-													
Pesticides																
	72-54-8	14	0.0033	0.0033		3										
	72-55-9	17	0.0033	0.0033		9										
	50-29-3	136	0.0033	0.0033	1.7 7											
	309-00-2	0.19	0.14	0.005	0.019 0.0			-		-				-		-
·	319-84-6	0.02	0.04	0.02	0.097 0.			-		-						
	5103-71-9	2.9	1.30	0.094		2									-	
	319-85-7	0.09	0.6	0.036	0.072 0.											
	319-86-8	0.25	0.04	0.04												
DIELDRIN	60-57-1	0.1	0.006	0.005	0.039 0	2										
Endosulfan I	959-98-8	102	-	2.4		4				-						
Endosulfan II	33213-65-9	102		2.4	4.8 2	4										
ENDOSULFAN SULFATE	1031-07-8	1000		2.4	4.8 2	4										
ENDRIN	72-20-8	0.06	0.01	0.014	2.2 1	1										
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													
	7429-90-5 7440-36-0					-										
Antimony	7440-36-0		12		_			-							 	
Antimony Arsenic	7440-36-0 7440-38-2	 16	12 13	13	 16 1	 6									 	
Antimony Arsenic Barium	7440-36-0 7440-38-2 7440-39-3	 16 820	12 13 433	13 350	16 1 350 4	 6		-							 	
Antimony Arsenic Barium Beryllium	7440-36-0 7440-38-2 7440-39-3 7440-41-7	 16 820 47	12 13	13 350 7.2	16 1 350 4 14 7	5			 							
Antimony Arsenic Barium Beryllium Cadmium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820	12 13 433 10 4	13 350	16 1 350 4 14 7				 						 	
Antimony Arsenic Barium Beryllium Cadmium Calcium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50	12 13 433 10	13 350 7.2 2.5	16 1 350 4 14 7 2.5 4			 	 		 				 	
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50	12 13 433 10 4 10000	13 350 7.2 2.5	- 16 1 350 4 14 7 2.5 4 - 36 1						 				 	
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	 16 820 47 7.50 	12 13 433 10 4 10000 	13 350 7.2 2.5 30	- 16 1 350 4 14 7 2.5 4 - 36 1 30						 				 	
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50	12 13 433 10 4 10000	13 350 7.2 2.5 30	- 16 1 350 4 14 7 2.5 4 - 36 1 30 270 2				 						 	
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	- 16 1 350 4 14 7 2.5 4 - 36 1 30 270 2 2000											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30	- 16 1 350 4 14 7 2.5 4 - 36 1 30 270 2 2000 400 4 4				 							
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-99-1	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 1 350 4 14 7 2.5 4 36 1 30 270 2 2000 400 4											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7440-50-8 7439-92-1 7439-95-4 7439-96-5	 16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 1600	16 1 350 4 14 7 2.5 4 36 1 30 270 2 2000 400 4 2000 20				 							
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0		12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63 1600	16 1 350 4 14 7 2.5 4 36 1 30 270 2 2000 400 4 2000 20 140 3											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-95-4 7439-96-5 7440-09-7	 16 820 47 7.50 1720 450 2000 130	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 1 350 4 14 7 7 2.5 4 36 1 30 270 2 2000 400 4 400 4 2000 20 140 3 3 17 140 3 3 5 5 1 16 16 16 16 16 16 16 16 16 16 16 16 1				 							
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-96-5 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30	16 1 1 350 4 1 1 4 7 7 2.5 4 36 1 1 30 2 2000 400 4 2000 20 140 3 36 1 1 36 1 1											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Selenium Silver	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	16 820 47 7.50 1720 450 2000 130 4 8.3	12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9	16 16 1 1 350 4 14 7 7 2.5 4 36 1 1 40 3 6 1 36 1 1 36 1 1 36 1 1											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7440-24-2 7440-23-5		12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30	16 16 1 1 350 4 14 7 7 2.5 4 4 1 2000 20 140 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-02-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0		12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 1600 30 3.9 2	16 1 1 350 4 1 1 4 7 7 1 1 4 7 7 1 1 1 1 1 1 1 1 1											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-09-7 7782-49-2 7440-22-4 7440-22-5 7440-62-2		12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 1 1 350 4 1 1 4 7 7 2.5 4 36 1 30 2000 20 140 3 36 1 36 1 36 1 36 1 36 1 100 100 100 100 100 100 100 100 10											
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-02-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0		12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 1600 30 3.9 2	- 16 1 1 350 4 1 1 4 7 7 2.5 4											

Notes: All values are provided in milligrams per kilogram (mg/kg)

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
L: Beault detected between the presting limit and the protect detection limit.

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



Locatior Sample D Field Sample	Date			Unrestricted		375-6.8(b) &	CBS3-SS-8 3/7/2006 SS-CBS3-8	CBS3-SS-9 3/7/2006 SS-CBS3-9	OU1EESB01 11/14/2018 181114	OU1EESB01 11/14/2018 181114	OU1EESB01 11/14/2018 181114	OU1EESB08 11/14/2018 181114	OU1EESB08 11/14/2018 181114	OU1EESB20 11/14/2018 181114	OU1EESB20 11/14/2018 181114	OU1EESB20 11/14/2018 181114	OU1EESB20 11/14/2018 181114
Depth Inter				Use Soil		375-6.8(b) & CP-51	2-2.5	2-2.5	4-6	6-8	16-18	4-6	6-8	4-6	6-8	9-10	4-6
Sample Purp		375-6.8(b) &	375-6.8(b) &	Cleanup	375-6.8(b) &	Residential-	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	CP-51 Residentia	I Restricted	KLG	KEG	REG	INEO	KEG	KLO	KEG	KLO	KEO	KEO	15
tile Organic Compounds	Code	0. 0.1.00	OF STIER	Objectives	Or or residentia	i itestriotea		· · · · · · · · · · · · · · · · · · ·	<u>'</u>	<u> </u>	'		<u> </u>	<u>'</u>	<u>'</u>		
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-Trichloroethane	71-55-6	0.68	_	0.68	100	100			< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
	79-34-5	0.66	-	0.00					< 0.0003		< 0.0003	-	-	< 0.0003		< 0.0003	< 0.0003
2,2-Tetrachloroethane		0.6	-	-	35					< 0.0003		-			< 0.0004		
2-Trichloroethane	79-00-5		-		-	-			< 0.0004	< 0.0004	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0005
2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	-	-	100	-			< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dichloroethane	75-34-3	0.27	-	0.27	19	26			< 0.0004	< 0.0004	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0005
3-Trichlorobenzene	87-61-6	-	20	-	-	-			< 0.004	< 0.004	< 0.004		-	< 0.004	< 0.004	< 0.004	< 0.005
-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
Dibromo-3-chloropropane (DBCP)	96-12-8		-		-	-			< 0.0003	< 0.0003	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0004
Dibromoethane	106-93-4		_		_	-			< 0.0003	< 0.0003	< 0.0004	-		< 0.0004	< 0.0004	< 0.0004	< 0.0004
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
Dichloroethane	107-06-2	0.02	10	0.02	2.3	3.1			< 0.0004	< 0.0004	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dichloropropane	78-87-5	0.02	700	0.02	2.3	3.1			< 0.0003	< 0.0003	< 0.0003		-	< 0.0003	< 0.0003	< 0.0003	< 0.0005
			100										-				
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
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
tanone (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
xanone	591-78-6		-			-			< 0.0008	< 0.0008	< 0.0009			< 0.0009	< 0.0009	< 0.0009	< 0.0009
ethyl-2-pentanone	108-10-1	1	-		-	-			< 0.0008	< 0.0008	< 0.0009			< 0.0009	< 0.0009	< 0.0009	< 0.0009
one	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
ene	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
ochloromethane	74-97-5		-						< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
	75-27-4		_					-									
odichloromethane		-	-		-	-			< 0.0003	< 0.0003	< 0.0004	-	-	< 0.0004	< 0.0004	< 0.0004	< 0.0004
oform	75-25-2	-	-	-	-	-			< 0.004	< 0.004	< 0.004			< 0.004	< 0.004	< 0.004	< 0.005
nomethane (Methyl bromide)	74-83-9	-	-	-	-	-			< 0.0006	< 0.0006	< 0.0006			< 0.0006	< 0.0006	< 0.0006	< 0.0006
oon disulfide	75-15-0	2.7	-		100	-			< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
oon 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
robenzene	108-90-7	1.1	40	1.1	100	100			< 0.0004	< 0.0004	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0005
roethane	75-00-3	1.9	_		_	_			< 0.0008	< 0.0008	< 0.0009			< 0.0009	< 0.0009	< 0.0009	< 0.0009
roform	67-66-3	0.37	12	0.37	10	49			< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
romethane (Methyl chloride)	74-87-3					-			< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
			_	0.05	59	400		-									
,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
,3-Dichloropropene	10061-01-5		-		-	-			< 0.0003	< 0.0003	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0004
ohexane	110-82-7	-	-	-	-	-			< 0.0004	< 0.0004	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0005
omochloromethane	124-48-1		10		-	-			< 0.0003	< 0.0003	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0004
lorodifluoromethane (Freon 12)	75-71-8		-		-	-			< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
propyl ether	108-20-3		_		_	-			< 0.0004	< 0.0004	< 0.0004	-		< 0.0004	< 0.0004	< 0.0004	< 0.0005
I-t-butylether	637-92-3		_		-	-			< 0.0004	< 0.0004	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0005
Ibenzene	100-41-4	1	_	1	30	41			< 0.0004	< 0.0004	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0004
ropylbenzene	98-82-8	2.3			100				< 0.0003	< 0.0003	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0004
•••			_	-				-									
Xylenes	XYLENES-MP		-	-	-	-			< 0.0008	< 0.0008	< 0.0009			< 0.0009	< 0.0009	< 0.0009	< 0.0009
yl acetate	79-20-9	-	-	-	-	-			< 0.0008	< 0.0008	< 0.0009		-	< 0.0009	< 0.0009	< 0.0009	< 0.0009
yl-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
ylcyclohexane	108-87-2				-	-			< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.0005
/lene 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
ene	95-47-6		_		_	-			< 0.0003	< 0.0003	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0004
ne	100-42-5		300		_	-			< 0.0002	< 0.0002	< 0.0003			< 0.0003	< 0.0003	< 0.0003	< 0.0003
nyl methyl ether	994-05-8			_	_				< 0.0002	< 0.0002			_	< 0.0007	< 0.0007	< 0.0007	
	75-65-0							-			< 0.0007		-				< 0.0007
y Butyl Alcohol			-		-	-			< 0.012	< 0.012	< 0.013			< 0.013	< 0.013	< 0.013	< 0.014
hloroethene	127-18-4	1.3	2	1.3	5.5	19			< 0.0004	< 0.0004	< 0.0004		-	< 0.0004	< 0.0004	< 0.0004	< 0.0008
e	108-88-3	0.7	36	0.7	100	100			< 0.0005	< 0.0005	< 0.0005			< 0.0005	< 0.0005	< 0.0005	< 0.000
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
1,3-Dichloropropene	10061-02-6		-		-	-			< 0.0002	< 0.0002	< 0.0003			< 0.0003	< 0.0003	< 0.0003	< 0.0003
oroethene (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
orofluoromethane (Freon 11)	75-69-4								< 0.0004	< 0.0004	< 0.0004			< 0.0004	< 0.0004	< 0.0004	< 0.0006
, ,			_	0.00	0.24			-				-					
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 < 0.0009
ylene (total)	1330-20-7	1.60	0.26	0.26	100	100			< 0.0008	< 0.0008	< 0.0009		-	< 0.0009	< 0.0009	< 0.0009	



Location I							CBS3-SS-8	CBS3-SS-9	OU1EESB01	OU1EESB01	OU1EESB01	OU1EESB08	OU1EESB08	OU1EESB20	OU1EESB20	OU1EESB20	OU1EESB20
Sample Dat							3/7/2006	3/7/2006	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018
Field Sample I				Unrestricted		375-6.8(b) &	SS-CBS3-8 2-2.5	SS-CBS3-9 2-2.5	181114 4-6	181114	181114 16-18	181114 4-6	181114 6-8	181114 4-6	181114	181114 9-10	181114 4-6
Depth Intervi Sample Purpos		375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) &	CP-51 Residential-	REG	REG	REG	6-8 REG	REG	REG	REG	REG	6-8 REG	REG	FD
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives	CP-51 Residential	Restricted											
volatile Organic Compounds																	
5-Tetrachlorobenzene	95-94-3		-		-	-			< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
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
4,6-Tetrachlorophenol	58-90-2		-	-	-	-			< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
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
6-Trichlorophenol	88-06-2 120-83-2		10	-		-	< 0.039	< 0.04	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
Dichlorophenol Dimethylphenol	105-67-9	0.4	20	-	100		< 0.039 < 0.12	< 0.04 < 0.12	< 0.018 < 0.018	< 0.018 < 0.018	< 0.019 < 0.019	< 0.02 < 0.02	< 0.02 < 0.02	< 0.019 < 0.019	< 0.019 < 0.019	< 0.018 < 0.018	< 0.019 < 0.019
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
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
-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
hloronaphthalene	91-58-7		-		-	-	< 0.039	< 0.04	< 0.007	< 0.007	< 0.007	< 0.008	< 0.008	< 0.008	< 0.008	< 0.007	< 0.008
hlorophenol (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
lethyl-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
lethylphenol (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
litroaniline (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
itrophenol (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
-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
litroaniline	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
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
Promophenylphenylether Chloroaniline	101-55-3 106-47-8	0.22		-	100		< 0.039 < 0.039	< 0.04 < 0.04	< 0.022 < 0.037	< 0.022 < 0.036	< 0.022 < 0.037	< 0.024 < 0.04	< 0.024 < 0.04	< 0.023 < 0.038	< 0.023 < 0.038	< 0.022 < 0.036	< 0.023 < 0.038
chlorophenyl phenyl ether	7005-72-3	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
Methylphenol (p-Cresol)	106-44-5	0.33	-	0.33	34	100	< 0.079	< 0.04	< 0.018	< 0.022	< 0.019	< 0.024	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
litroaniline	100-01-6		_				< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.024	< 0.075	< 0.075	< 0.072	< 0.023
litrophenol	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
enaphthene	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
enaphthylene	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
etophenone	98-86-2		-		-	-			< 0.026	< 0.025	< 0.026	< 0.028	< 0.028	< 0.026	< 0.026	< 0.025	< 0.027
hracene	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
azine	1912-24-9		-		-	-			< 0.037	< 0.036	< 0.037	< 0.04	< 0.04	< 0.038	< 0.038	< 0.036	< 0.038
nzaldehyde	100-52-7	-	-		-				< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
nzo(a)anthracene	56-55-3	1	-	1	1	1	<u>1.1</u>	<u>1.2</u>	< 0.004	< 0.004	< 0.004	0.006 J	< 0.004	0.11	< 0.004	< 0.004	0.11
nzo(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
nzo(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
nzo(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
nzo(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
(2-Chloroethoxy)methane (2-Chloroethyl) ether	111-91-1 111-44-4		-		-		< 0.039 < 0.039	< 0.04 < 0.04	< 0.018 < 0.026	< 0.018 < 0.025	< 0.019 < 0.026	< 0.02 < 0.028	< 0.02 < 0.028	< 0.019 < 0.026	< 0.019 < 0.026	< 0.018 < 0.025	< 0.019 < 0.027
(2-chloroisopropyl) ether	108-60-1			-	_		< 0.039	< 0.04	< 0.026	< 0.025	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.025	< 0.027
(2-Ethylhexyl)phthalate	117-81-7	435	239		50	_	< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.02	< 0.02	< 0.075	< 0.075	< 0.072	< 0.077
ylbenzylphthalate	85-68-7	122			100		< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
prolactam	105-60-2								< 0.037	< 0.036	< 0.037	< 0.04	< 0.04	< 0.038	< 0.038	< 0.036	< 0.038
rbazole	86-74-8		-		-	-	0.26	0.26	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
ysene	218-01-9	1	-	1	1	3.9	<u>1.1</u>	1.2	0.004 J	< 0.004	< 0.004	0.007 J	< 0.004	0.1	< 0.004	< 0.004	0.11
n-butylphthalate	84-74-2	8.1	0.01		100	-	< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
n-octylphthalate	117-84-0	120	-		100		< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
enz(a,h)anthracene	53-70-3	1000		0.33	0.33	0.33	0.18 J	0.18 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.014 J	< 0.004	< 0.004	0.018 J
enzofuran	132-64-9	6.20		7	14	59	0.083 J	0.12 J	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
thylphthalate	84-66-2	7.1	100	-	100	-	< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
nethyl phthalate	131-11-3	27	200		100		< 0.079	< 0.079	< 0.074	< 0.072	< 0.074	< 0.08	< 0.079	< 0.075	< 0.075	< 0.072	< 0.077
henyl (Biphenyl, Phenyl benzene)	92-52-4		60						< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
pranthene	206-44-0	1000		100	100	100	2.2	2.4	0.004 J	< 0.004	< 0.004	0.009 J	< 0.004	0.16	< 0.004	< 0.004	0.18
orene	86-73-7	386	30	30	100	100	0.17 J	0.21	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.007 J	< 0.004	< 0.004	0.006 J
achlorobenzene achlorobutadiene	118-74-1 87-68-3	1.4	-	0.33	0.33	1.2	< 0.039	< 0.04	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
achlorocyclopentadiene	87-68-3 77-47-4		10		-	-	< 0.079 < 0.2	< 0.079	< 0.022 < 0.18	< 0.022 < 0.18	< 0.022 < 0.19	< 0.024	< 0.024	< 0.023 < 0.19	< 0.023 < 0.19	< 0.022 < 0.18	< 0.023 < 0.19
achlorocyclopentadiene	67-72-1			-	-		< 0.2	< 0.2 < 0.04	< 0.18	< 0.18	< 0.19	< 0.2 < 0.04	< 0.2 < 0.04	< 0.19	< 0.19	< 0.18	< 0.19
no(1,2,3-cd)Pyrene	193-39-5	8.2	-	0.5	0.5	0.5	0.49	0.52	< 0.007	< 0.007	< 0.007	< 0.008	< 0.008	0.073	< 0.008	< 0.007	0.077
horone	78-59-1	4.4	-		100		< 0.039	< 0.04	< 0.007	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.007	< 0.019
litrosodi-n-propylamine	621-64-7		-	-	-	-	< 0.039	< 0.04	< 0.022	< 0.022	< 0.022	< 0.024	< 0.024	< 0.023	< 0.023	< 0.022	< 0.023
litrosodiphenylamine (Diphenylamine)	86-30-6		20		-		< 0.039	< 0.04	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
phthalene	91-20-3	12	-	12	100	100	0.1 J	0.13 J	< 0.007	< 0.007	< 0.007	< 0.008	< 0.008	0.077	< 0.008	< 0.007	< 0.008
obenzene	98-95-3	0.17	40		3.7	15	< 0.039	< 0.04	< 0.029	< 0.029	< 0.03	< 0.032	< 0.032	< 0.03	< 0.03	< 0.029	< 0.031
chloro-m-cresol	59-50-7		-		-		< 0.079	< 0.079	< 0.018	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.019	< 0.018	< 0.019
ntachlorophenol	87-86-5	0.8	0.8	0.8	2.4	6.7	< 0.2	< 0.2	< 0.04	< 0.04	< 0.041	< 0.044	< 0.044	< 0.042	< 0.041	< 0.04	< 0.042
enanthrene	85-01-8	1000		100	100	100	2	2.4	< 0.004	< 0.004	< 0.004	0.007 J	< 0.004	0.059	< 0.004	< 0.004	0.065
enol	108-95-2	0.33	30	0.33	100	100	< 0.039	< 0.04	< 0.026	< 0.025	< 0.026	< 0.028	< 0.028	< 0.026	< 0.026	< 0.025	< 0.027
ene	129-00-0	1000	-	100	100	100	2.1	2.3	0.006 J	< 0.004	< 0.004	0.011 J	< 0.004	0.15	< 0.004	< 0.004	0.16



Location II	D						CBS3-SS-8	CBS3-SS-9	OU1EESB01	OU1EESB01	OU1EESB01	OU1EESB08	OU1EESB08	OU1EESB20	OU1EESB20	OU1EESB20	OU1EESB20
Sample Date	е						3/7/2006	3/7/2006	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018
Field Sample II	P.			Unrestricted		5-6.8(b) &	SS-CBS3-8	SS-CBS3-9	181114	181114	181114	181114	181114	181114	181114	181114	181114
Depth Interva Sample Purpose	al e Parameter	375-6.8(b) &	375-6.8(b) &	Use Soil Cleanup		CP-51 esidential-	2-2.5 REG	2-2.5 REG	4-6 REG	6-8 REG	16-18 REG	4-6 REG	6-8 REG	4-6 REG	6-8 REG	9-10 REG	4-6 FD
Parameter Name	Code	CP-51 POG	CP-51 PER	Objectives		estricted	KLO	KEO	REG	KEO	KEO	KEO	KEO	KEO	KLO	KLO	
olychlorinated 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
•	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
•	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
	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
	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 ENDOSULFAN SULFATE	33213-65-9 1031-07-8	102 1000	-	2.4	4.8	24								< 0.0013 D1 < 0.00038 D2	< 0.0012 D2 < 0.00037 D2	< 0.0012 D2 < 0.00036 D1	< 0.0013 D2 < 0.00038 D1
ENDRIN	72-20-8	0.06	0.01	0.014	2.2	11								< 0.00038 D2 < 0.00077 D1	< 0.00037 D2 < 0.00076 D1	< 0.00036 D1 < 0.00074 D2	< 0.00038 D1 < 0.00078 D1
	7421-93-4	0.00	0.01	0.014	2.2	-					-	-	-	< 0.00077 D1 < 0.00038 D1	< 0.00076 D1 < 0.00037 D1	< 0.00074 D2 < 0.00036 D1	< 0.00078 D1 < 0.00038 D1
ENDRIN KETONE	53494-70-5			-	_	-								< 0.0008 D1	< 0.00037 D1 < 0.00067 D1	< 0.00056 D1	< 0.00038 D1 < 0.00069 D1
gamma BHC (Lindane)	58-89-9	0.1	6	0.1	0.28	1.3								< 0.00024 D2	< 0.00007 D1 < 0.00024 D2	< 0.00003 D1 < 0.00023 D2	< 0.0003 D1 < 0.00024 D1
gamma Chlordane	5103-74-2	14	-		0.54							-		< 0.00024 D2	< 0.00024 D2 < 0.00028 D2	< 0.00023 D2 < 0.00027 D2	< 0.00024 D1 < 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
	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																	
	7400 00 5				-	-			13,100	12,100	13,900	18,300	12,400	15,900	40.000		15,700
Aluminum	7429-90-5	-	10000												13,900	13,400	
Antimony	7429-90-5 7440-36-0	-	10000		-	-			0.239 J	< 0.109	< 0.111	0.134 J	< 0.143	< 0.109	0.118 J	13,400 < 0.0978	< 0.122
Antimony				 13	 16	 16			0.239 J 8.41	< 0.109 5.9	< 0.111 4.77	0.134 J 7.92		< 0.109 5.75			
Antimony	7440-36-0		12										< 0.143		0.118 J	< 0.0978	< 0.122
Antimony Arsenic	7440-36-0 7440-38-2	 16	12 13	13	16	16			8.41	5.9	4.77	7.92	< 0.143 5.95	5.75	0.118 J 6.08	< 0.0978 4.84	< 0.122 6.6
Antimony Arsenic Barium Beryllium Cadmium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820	12 13 433 10 4	13 350	16 350	16 400			8.41 39.9 0.661 0.0957 J	5.9 33.6 0.536 0.103 J	4.77 58.7 0.58 0.0741 J	7.92 81.9 0.744 0.107 J	< 0.143 5.95 39.9 0.592 0.132 J	5.75 54.7	0.118 J 6.08 46.1 0.602 0.142 J	< 0.0978 4.84 46.3 0.582 0.174	< 0.122 6.6 53.6 0.641 0.142 J
Antimony Arsenic Barium Beryllium Cadmium Calcium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47	12 13 433 10	13 350 7.2 2.5	16 350 14 2.5	16 400 72 4.3			8.41 39.9 0.661 0.0957 J 601	5.9 33.6 0.536 0.103 J 1,340	4.77 58.7 0.58 0.0741 J 23,600	7.92 81.9 0.744 0.107 J 2,040	< 0.143 5.95 39.9 0.592 0.132 J 1,400	5.75 54.7 0.636 0.128 J 1,440	0.118 J 6.08 46.1 0.602 0.142 J 1,950	< 0.0978 4.84 46.3 0.582 0.174 16,400	< 0.122 6.6 53.6 0.641 0.142 J 1,360
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50	12 13 433 10 4 10000	13 350 7.2 2.5 30	16 350 14 2.5 36	16 400 72 4.3 180		 	8.41 39.9 0.661 0.0957 J 601 15.3	5.9 33.6 0.536 0.103 J 1,340 14.1	4.77 58.7 0.58 0.0741 J 23,600 17.5	7.92 81.9 0.744 0.107 J 2,040 48.6	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8	5.75 54.7 0.636 0.128 J 1,440 18.7	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3	< 0.122 6.6 53.6 0.641 0.142 J 1,360 18.9
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	 16 820 47 7.50 	12 13 433 10 4 10000 	13 350 7.2 2.5 30	16 350 14 2.5 36 30	16 400 72 4.3 180		 	8.41 39.9 0.661 0.0957 J 601 15.3 9.53	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8	< 0.122 6.6 53.6 0.641 0.142 J 1,360 18.9 11.6
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50	12 13 433 10 4 10000	13 350 7.2 2.5 30	16 350 14 2.5 - 36 30 270	16 400 72 4.3 180		 	8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	12 13 433 10 4 10000 20 50	13 350 7.2 2.5 30 50	16 350 14 2.5 - 36 30 270 2000	16 400 72 4.3 180 270		 	8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6 31.7 30,400
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 	13 350 7.2 2.5 30	16 350 14 2.5 - 36 30 270	16 400 72 4.3 180 270 400	 		8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98	4.77 58.7 0.58 0.0741 J 23.600 17.5 9.55 21.3 25,100 9.59	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1	< 0.122 6.6 53.6 0.641 0.142 J 1,360 18.9 11.6 31.7 30,400
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-96-6 7439-92-1 7439-95-4	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 - 180 - 270 - 400		 	8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670	4.77 58.7 0.58 0.0741 J 23.600 17.5 9.55 21.3 25,100 9.59 12,100	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5,510	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300	< 0.122 6.6 53.6 0.641 0.142 J 1,360 18.9 11.6 31.7 30,400 14 5,630
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-1 7439-95-4 7439-95-5	 16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600	13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	16 400 72 4.3 - 180 - 270 - 400			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5,510 699	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658	< 0.122 6.6 53.6 0.641 0.142 J 1,360 18.9 11.6 31.7 30,400 14 5,630
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-40-9 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-95-4 7439-96-5 7440-02-0	 16 820 47 7.50 1720 450	12 13 433 10 4 10000 20 50 63	13 350 7.2 2.5 30 50 63	16 350 14 2.5 36 30 270 2000 400	16 400 72 4.3 - 180 - 270 - 400 - 2000 310			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440 548	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5,510 699 23.5	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26	<0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6 31.7 30,400 14 5,630 890 24.8
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-60-8 7440-50-8 7439-89-6 7439-95-4 7439-95-5 7440-02-0 7440-09-7	 16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 - 36 30 270 2000 400 - 2000 140 -	16 400 72 4.3 - 180 - 270 - 400 - 2000 310			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440 548 18.8 1,420	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9 1,600	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1 2,260	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9 1,610	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3 1,700	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5,510 699 23.5 2,060	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26 1,660	<0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2 1,880	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6 31.7 30,400 14 5.630 890 24.8 1,860
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-09-7 7782-49-2	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 - 180 - 270 - 400 - 2000 310 - 180			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440 548 18.8 1,420 0.134 J	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9 1,600 < 0.113	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1 2,260 0.145 J	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9 1,610 0.42	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3 1,700 < 0.148	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5.510 699 23.5 2,060 < 0.113	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26 1,660 0.112 J	<0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2 1,880 < 0.101	< 0.122 6.6 53.6 0.641 0.142 J 1,360 18.9 11.6 31.7 30,400 14 5,630 890 24.8 1,860 < 0.126
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-48-4 7440-50-8 7439-96-5 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	 16 820 47 7.50 1720 450 2000	12 13 433 10 4 10000 20 50 63 1600 30	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 - 36 30 270 2000 400 - 2000 140 -	16 400 72 4.3 - 180 - 270 - 400 - 2000 310 - 180 180			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440 548 18.8 1,420 0.134 J < 0.0352	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9 1,600 < 0.113 < 0.0351	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1 2,260 0.145 J 0.0446 J	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9 1,610 0.42	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3 1,700 < 0.148 < 0.0459	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5,510 699 23.5 2,060 < 0.113 < 0.0352	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26 1,660 0.112 J 0.0492 J	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2 1,880 < 0.101 < 0.0314	< 0.122 6.6 53.6 0.641 0.142 J 1,360 18.9 11.6 31.7 30,400 14 5,630 890 24.8 1,860 < 0.126 0.0452 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-95-4 7439-95-7 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	16 820 47 7.50 1720 450 2000 130 4	12 13 433 10 4 10000 20 50 63 1600 30 3.9	13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140 36	16 400 72 4.3 - 180 - 270 - 400 - 2000 310 - 180			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440 548 18.8 1,420 0.134 J < 0.0352 < 69.7	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9 1,600 < 0.113 < 0.0351 < 69.6	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1 2,260 0.145 J 0.0446 J 79 J	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9 1,610 0.42 0.0534 J < 76.7	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3 1,700 < 0.148 < 0.0459 < 90.9	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5,510 699 23.5 2,060 < 0.113 < 0.0352 < 69.6	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26 1,660 0.112 J 0.0492 J < 61.9	< 0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2 1,880 < 0.101 < 0.0314 < 62.2	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6 31.7 30,400 14 5.630 890 24.8 1.860 < 0.126 0.0452 J < 77.5
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-4 7439-95-4 7439-95-7 7440-02-0 7440-02-7 7782-49-2 7440-23-5 7440-23-5		12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 270 400 2000 310 180 180			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440 548 18.8 1,420 0.134 J < 0.0352 < 69.7 0.0885	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9 1,600 < 0.113 < 0.0351 < 69.6 0.0593 J	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1 2,260 0.145 J 0.0446 J 79 J 0.0943	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9 1,610 0.42 0.0534 J < 76.7 0.151	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3 1,700 < 0.148 < 0.0459 < 90.9 0.133	5.75 54.7 0.636 0.128 J 1.440 18.7 11.6 27 29,400 12 5.510 699 23.5 2,060 < 0.113 < 0.0352 < 69.6 0.0967	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26 1,660 0.112 J 0.0492 J < 61.9 0.0866	<0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2 1,880 < 0.101 < 0.0314 < 62.2 0.0959	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6 31.7 30,400 14 5.630 880 24.8 1.860 < 0.126 0.0452 J < 77.5 0.0799 J
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-60-8 7439-89-6 7439-95-4 7439-95-4 7440-62-0 7440-09-7 7782-49-2 7440-22-4 7440-28-0 7440-62-2		12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 30 50 63 1600 30 3.9 2	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36 100	16 400 72 4.3 - 180 - 270 - 400 - 2000 310 - 180 180 -			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4.440 548 18.8 1,420 0.134 J < 0.0352 < 69.7 0.0885 18.9	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9 1,600 < 0.113 < 0.0351 < 69.6 0.0593 J 18.9	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1 2,260 0.145 J 0.0446 J 79 J 0.0943 19.9	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9 1,610 0.42 0.0534 J < 76.7 0.151 25.4	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3 1,700 < 0.148 < 0.0459 < 90.9 0.133 18.7	5.75 54.7 0.636 0.128 J 1,440 18.7 11.6 27 29,400 12 5,510 699 23.5 2,060 < 0.113 < 0.0352 < 69.6 0.0967 21.3	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26 1,660 0.112 J 0.0492 J < 61.9 0.0866 18.7	<0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2 1,880 <0.101 <0.0314 <62.2 0.0959 19.7	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6 31.7 30,400 14 5.630 890 24.8 1.860 < 0.126 0.0452 J < 77.5 0.0799 J 21.4
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-4 7439-95-4 7439-95-7 7440-02-0 7440-02-7 7782-49-2 7440-23-5 7440-23-5		12 13 433 10 4 10000 20 50 63 1600 30 3.9 2	13 350 7.2 2.5 	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36 36	16 400 72 4.3 180 270 400 2000 310 180 180			8.41 39.9 0.661 0.0957 J 601 15.3 9.53 25.4 25,500 15.1 4,440 548 18.8 1,420 0.134 J < 0.0352 < 69.7 0.0885	5.9 33.6 0.536 0.103 J 1,340 14.1 8.26 23.7 24,700 8.98 4,670 624 17.9 1,600 < 0.113 < 0.0351 < 69.6 0.0593 J	4.77 58.7 0.58 0.0741 J 23,600 17.5 9.55 21.3 25,100 9.59 12,100 498 21.1 2,260 0.145 J 0.0446 J 79 J 0.0943	7.92 81.9 0.744 0.107 J 2,040 48.6 10.4 26 26,400 20 5,170 938 25.9 1,610 0.42 0.0534 J < 76.7 0.151	< 0.143 5.95 39.9 0.592 0.132 J 1,400 14.8 10.1 23.5 24,000 10.5 4,960 549 21.3 1,700 < 0.148 < 0.0459 < 90.9 0.133	5.75 54.7 0.636 0.128 J 1.440 18.7 11.6 27 29,400 12 5.510 699 23.5 2,060 < 0.113 < 0.0352 < 69.6 0.0967	0.118 J 6.08 46.1 0.602 0.142 J 1,950 17.3 12.2 28.3 28,600 12.3 5,850 670 26 1,660 0.112 J 0.0492 J < 61.9 0.0866	<0.0978 4.84 46.3 0.582 0.174 16,400 16.3 10.8 23.9 26,600 11.1 7,300 658 23.2 1,880 < 0.101 < 0.0314 < 62.2 0.0959	< 0.122 6.6 53.6 0.641 0.142 J 1.360 18.9 11.6 31.7 30,400 14 5.630 880 24.8 1.860 < 0.126 0.0452 J < 77.5 0.0799 J

Notes: All values are provided in milligrams per kilogram (mg/kg)

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
-: Peoult detected between the prediction limit.

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



Locati Sample Field Sam Depth Int Sample Pul Parameter Name	Date ble ID erval	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		-		400	400							0.000	
1,2-Dichlorobenzene (o-Dichlorobenzene) 1,2-Dichloroethane	95-50-1 107-06-2	1.1	10	1.1	100 2.3	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
1,2-Dichloropropane	78-87-5	0.02	700	0.02	2.3	3.1	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001 < 0.001
1,3-Dichlorobenzene	78-87-5 541-73-1	2.4	700	2.4	17	49	< 0.001 < 0.038	< 0.001	< 0.001	< 0.001	< 0.001 < 0.042	< 0.001 < 0.042	< 0.001	< 0.001 < 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	< 0.038	< 0.041	< 0.038	< 0.005	< 0.042 < 0.005	< 0.042 < 0.005	< 0.036	< 0.042
2-Hexanone	591-78-6	U.3 		0.12			< 0.003	< 0.005	< 0.003	< 0.005	< 0.005	< 0.005	< 0.004	< 0.005
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		-			400						-	-	
Methyl-t-butyl ether	1634-04-4	0.93	-	0.93	62	100						-	-	
Methylcyclohexane	108-87-2					100								
Methylene chloride (Dichloromethane)	75-09-2 95-47-6	0.05	12	0.05	51		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.003
o-Xylene	100-42-5		300											
Styrene tert-Amyl methyl ether	100-42-5 994-05-8		300	-	-	_	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
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	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-1,3-Dichloropropene	10061-02-6	0.13		0.19			< 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								< 0.001		< 0.001	< 0.001		< 0.001
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	0.02	100	100	< 0.001	< 0.001	< 0.001	0.006 J	< 0.001	< 0.001	< 0.001	< 0.001



	Location ID						SS-C01	SS-C02	SS-C03	SS-C04	SS-C05	SS-C06	SS-C07	SS-C08
	Sample Date						2/6/2006	2/6/2006	2/7/2006	2/16/2006	2/17/2006	2/17/2006	2/17/2006	2/17/2006
	eld Sample ID			Unrestricted		375-6.8(b) &	SS-C01-0-0.5	SS-C02-0-0.5	SS-C03-0-0.5	SS-C04-0-0.5	SS-C05	SS-C06	SS-C07	SS-C08
	Depth Interval Inple Purpose Parame	eter 375-6.8(b) 8	375-6.8(b) &	Use Soil Cleanup	375-6.8(b) &	CP-51 Residential-	8-12 REG	2-2.5 REG						
Parameter Name	Code			Objectives	CP-51 Residential	Restricted	NEO .	ILEO	N.E.O	N.E.O	in Eu	N.EG	INEO	
mivolatile Organic Compounds														
2,4,5-Tetrachlorobenzene	95-94-3	-	-	-	-	-								
4-Dioxane	123-91-1	0.1	0.1	0.1	9.8	13								
3,4,6-Tetrachlorophenol	58-90-2		-	-	-	-								
4,5-Trichlorophenol	95-95-4 88-06-2	0.1	10		100	-	< 0.075 < 0.038	< 0.081	< 0.076	< 0.081	< 0.083 < 0.042	< 0.084	< 0.073	< 0.085 < 0.042
4,6-Trichlorophenol 4-Dichlorophenol	120-83-2	0.4	20		100	_	< 0.038	< 0.041 < 0.041	< 0.038 < 0.038	< 0.041 < 0.041	< 0.042	< 0.042 < 0.042	< 0.036 < 0.036	< 0.042
4-Dimethylphenol	105-67-9			-			< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.13	< 0.11	< 0.13
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
4-Dinitrotoluene	121-14-2	-	-	-	-	-	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
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
Chloronaphthalene	91-58-7		-		-	-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
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
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
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
Nitroaniline (o-Nitroaniline)	88-74-4	0.4	-			-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
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
S'-Dichlorobenzidine	91-94-1		-	-	-	-	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.13	< 0.11	< 0.13
Nitroaniline 6-Dinitro-2-methylphenol (4,6-Dinitro	99-09-2 o-o-cresol) 534-52-1	0.5	-			-	< 0.075 < 0.19	< 0.081 < 0.2	< 0.076 < 0.19	< 0.081 < 0.2	< 0.083 < 0.21	< 0.084 < 0.21	< 0.073 < 0.18	< 0.085 < 0.21
Bromophenylphenylether	101-55-3					-	< 0.19	< 0.2	< 0.19	< 0.2	< 0.21	< 0.21	< 0.18	< 0.21
Chloroaniline	106-47-8	0.22	-		100	-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Chlorophenyl phenyl ether	7005-72-3		-			-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
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
Nitroaniline	100-01-6		-		-	_	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
Nitrophenol	100-02-7	0.1	7			-	< 0.19	< 0.2	< 0.19	< 0.2	< 0.21	< 0.21	< 0.18	< 0.21
enaphthene	83-32-9	98	20	20	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
enaphthylene	208-96-8	107	-	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
etophenone	98-86-2		-			-								
nthracene	120-12-7	1000	-	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
trazine	1912-24-9	-	-		-	-								
enzaldehyde	100-52-7	-	-	-	-	-	-		-		-		-	
enzo(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
enzo(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
enzo(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
enzo(g,h,i)perylene enzo(k)fluoranthene	191-24-2 207-08-9	1000	-	100 0.8	100	100 3.9	< 0.038	< 0.041 < 0.041	< 0.038	< 0.041	< 0.042 < 0.042	< 0.042	< 0.036	< 0.042 < 0.042
s(2-Chloroethoxy)methane	111-91-1	1.7	-	0.8	1	3.9	< 0.038 < 0.038	< 0.041	< 0.038 < 0.038	< 0.041 < 0.041	< 0.042	< 0.042 < 0.042	< 0.036 < 0.036	< 0.042
s(2-Chloroethyl) ether	111-44-4					-	< 0.038	< 0.041	< 0.038	0.085 J	< 0.042	< 0.042	< 0.036	< 0.042
s(2-chloroisopropyl) ether	108-60-1		-	-	_		< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
s(2-Ethylhexyl)phthalate	117-81-7	435	239	-	50	-	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.042	< 0.073	< 0.042
utylbenzylphthalate	85-68-7	122			100	_	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
aprolactam	105-60-2		-		-	-					-			
arbazole	86-74-8	-				-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
nrysene	218-01-9	1	-	1	1	3.9	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
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
-n-octylphthalate	117-84-0	120	-		100	-	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
benz(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
benzofuran	132-64-9	6.20	-	7	14	59	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
ethylphthalate	84-66-2	7.1	100	-	100	-	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
methyl phthalate	131-11-3	27	200	-	100	-	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
phenyl (Biphenyl, Phenyl benzene)	92-52-4	4000	60		400									
uoranthene	206-44-0	1000 386		100	100	100 100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
uorene exachlorobenzene	86-73-7 118-74-1	1.4	30	30 0.33	100 0.33	1.2	< 0.038 < 0.038	< 0.041 < 0.041	< 0.038 < 0.038	< 0.041 < 0.041	< 0.042 < 0.042	< 0.042	< 0.036 < 0.036	< 0.042 < 0.042
xachlorobenzene	87-68-3	1.4	-	0.33	0.33	1.2	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042 < 0.084	< 0.036	< 0.042
xachlorocyclopentadiene	77-47-4		10			_	< 0.19	< 0.081	< 0.076	< 0.0	< 0.063	< 0.064	< 0.073	< 0.21
xachloroethane	67-72-1				-	-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
leno(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
phorone	78-59-1	4.4	-		100		< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Nitrosodi-n-propylamine	621-64-7		-		-	-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
Nitrosodiphenylamine (Diphenylam			20			-	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
aphthalene	91-20-3	12	-	12	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
trobenzene	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
Chloro-m-cresol	59-50-7		-		-	-	< 0.075	< 0.081	< 0.076	< 0.081	< 0.083	< 0.084	< 0.073	< 0.085
entachlorophenol	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
henanthrene	85-01-8	1000	-	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042
henol	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
yrene	129-00-0	1000	-	100	100	100	< 0.038	< 0.041	< 0.038	< 0.041	< 0.042	< 0.042	< 0.036	< 0.042



Parameter Nam	Location ID Sample Date Field Sample ID Depth Interval Sample Purpose ne	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 Pesticides		11100-14-4		-											
		70.54.0	44	0.0000	0.0000	0.0	40								
4,4-DDD 4,4-DDE		72-54-8 72-55-9	14 17	0.0033	0.0033 0.0033	2.6 1.8	13 8.9								
4,4-DDT		72-55-9 50-29-3	136	0.0033	0.0033	1.7	7.9					-		-	
4,4-DDT Aldrin		50-29-3 309-00-2	0.19	0.0033	0.0033	0.019	0.097								
alpha BHC		319-84-6	0.19	0.14	0.005	0.019	0.097					-	-	-	-
alpha Chlordane		5103-71-9	2.9	1.30	0.02	0.097	4.2								-
beta BHC		319-85-7	0.09	0.6	0.034	0.072	0.36								
delta BHC		319-86-8	0.09	0.04	0.036	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			_						<u> </u>				1		
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 Cadmium		7440-41-7	47	10	7.2	14	72					-	-	-	-
		7440-43-9	7.50	10000	2.5	2.5	4.3					-			
Calcium Chromium		7440-70-2 7440-47-3		10000		36	180								
Cobalt		7440-47-3		20	30	30	180								
Copper		7440-46-4	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:															

Notes:
All values are provided in milligrams per kilogram (mg/kg)

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
L: Beault detected between the presting limit and the protect detection limit.

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		NYS TOGS	USEPA	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A
Sample Date	Parameter Code	GWQS	Tapwater RSL	8/21/2007	11/28/2007	6/10/2008	11/18/2008	7/15/2009	11/10/2009	11/10/2009	5/26/2010	10/12/2010	5/11/2011	11/10/2011
Sample Purpose Parameter Name			2019	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
olatile Organic Compounds														
,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
,1,1,2-Tetrachloroethane	630-20-6													
,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
,1,2,2-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
,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5												
,1-Dichloroethane	75-34-3	5		< 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		< 0.9	< 1				< 1		< 0.5
1,2,4-Trimethylbenzene	95-63-6					< 1			< 1	< 1	< 1		< 1	
1,2-Dibromo-3-chloropropane (DBCP)			0.00033											
1,2-Dibromo-3-chioropropane (DBCP)	96-12-8 106-93-4		0.00033 0.0075			 			 					
	95-50-1													 - 0 5
1,2-Dichlorobenzene (o-Dichlorobenzene) 1,2-Dichloroethane		3		< 1	<1	< 1	< 0.9	< 1	< 1	<1	< 1	< 1	< 1	< 0.5
	107-06-2	0.6		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene 1,2-Dichloropropane	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
• •	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							 					
,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													
sopropylbenzene	98-82-8		450											
n,p-Xylenes	XYLENES-MP													



Location ID		NIVO TOOS	USEPA	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A
Sample Date	Doromotor Code	NYS TOGS	Tapwater RSL	8/21/2007	11/28/2007	6/10/2008	11/18/2008	7/15/2009	11/10/2009	11/10/2009	5/26/2010	10/12/2010	5/11/2011	11/10/2011
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter Name 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													
p-Xylene	95-47-6		190											
o-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		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
trans-1,2-Dichloroethene	156-60-5	5		< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-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	0
Trichlorofluoromethane (Freon 11)	75-69-4					•		!	-		-			0
Vinyl Acetate	108-05-4	5		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
•	75-01-4													
Virgl chloride (Chloroethene)	1330-20-7	5		< 1 < 0.8	< 1 < 0.8	< 1 < 0.8	< 1 < 0.8	< 1	< 1 < 0.8					
Xylene (total) Semivolatile Organic Compounds	1330-20-7	3		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2,4,5-Tetrachlorobenzene	95-94-3		4.7											
1,4-Dioxane	123-91-1	-	1.7 0.46											
2,3,4,6-Tetrachlorophenol	58-90-2													
2,4,5-Trichlorophenol		<u>-</u>	240											 - 0 F
•	95-95-4	1		< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2,4,6-Trichlorophenol 2,4-Dichlorophenol	88-06-2 120-83-2	1 5		< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
· · · · · · · · · · · · · · · · · · ·		•		< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2,4-Dimethylphenol 2,4-Dinitrophenol	105-67-9 51-28-5	50		< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 0.5
2,4-Dinitrophenoi		10 5		< 20	< 19	< 19	< 19	< 19	< 22	< 20	< 10	< 10	< 10	< 10
2,6-Dinitrotoluene	121-14-2 606-20-2			< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	91-58-7	5		< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5 < 0.4
•		10		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	
2-Chlorophenol (o-Chlorophenol)	95-57-8	1	 26	< 1	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
2-Methylphonol (c. Crosol)	91-57-6	<u></u>	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-Nitrophonal (c. Nitrophonal)	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



Location ID			USEPA	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A
Sample Date		NYS TOGS	Tapwater RSL	8/21/2007	11/28/2007	6/10/2008	11/18/2008	7/15/2009	11/10/2009	11/10/2009	5/26/2010	10/12/2010	5/11/2011	11/10/2011
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter Name														
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												
D III (D: 1 I)	7440-41-7	3												
Beryllium (Dissolved)	1 1 1 4 11 1													



Location ID		NYS TOGS	USEPA	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A
Sample Date	Parameter Code	GWQS	Tapwater RSL	8/21/2007	11/28/2007	6/10/2008	11/18/2008	7/15/2009	11/10/2009	11/10/2009	5/26/2010	10/12/2010	5/11/2011	11/10/2011
Sample Purpose	Turumeter oode	OWGO	2019	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter Name														
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												
	1 403-31-0	V.1						-		-				

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		NYS TOGS	USEPA	DB-8A	DB-8A	DB-8A								
Sample Date Sample Purpose	Parameter Code	GWQS	Tapwater RSL 2019	7/18/2012 REG	10/23/2012 REG	6/11/2013 REG	11/13/2013 REG	6/11/2014 REG	11/12/2014 REG	6/22/2015 REG	11/17/2015 REG	6/13/2016 REG	11/16/2016 REG	6/27/2017 REG
Parameter Name														
/olatile Organic Compounds	75.05.4	_		0.0		0.0			0.5	0.5	0.5	0.5	0.5	0.5
,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
I,1,1,2-Tetrachloroethane	630-20-6													
I,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
,1,2,2-Tetrachloroethane	79-34-5	5 1		< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
I,1,2-Trichloroethane	79-00-5	•		< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
,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 1,2,3-Trichlorobenzene	563-58-6													
	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
Chloreform	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													
sopropylbenzene	98-82-8		450											
m,p-Xylenes	XYLENES-MP													



Location ID		NVC TOOS	USEPA	DB-8A	DB-8A	DB-8A								
Sample Date	Parameter Code	NYS TOGS	Tapwater RSL	7/18/2012	10/23/2012	6/11/2013	11/13/2013	6/11/2014	11/12/2014	6/22/2015	11/17/2015	6/13/2016	11/16/2016	6/27/2017
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG								
Parameter Name														
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



Location ID			USEPA	DB-8A	DB-8A	DB-8A								
Sample Date	Downwart 0	NYS TOGS	Tapwater RSL	7/18/2012	10/23/2012	6/11/2013	11/13/2013	6/11/2014	11/12/2014	6/22/2015	11/17/2015	6/13/2016	11/16/2016	6/27/2017
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG								
Parameter Name														
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



Location ID		NYS TOGS	USEPA	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-17
Sample Date	Parameter Code	GWQS	Tapwater RSL 2019	10/31/2017	6/12/2018	11/2/2018	6/20/2019	10/31/2019	12/3/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021	7/15/2009
Sample Purpose Parameter Name			2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
olatile Organic Compounds														
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
,1,1,2-Tetrachloroethane	630-20-6									< 1	< 0.500	< 0.500	< 0.500	
,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
,1,2,2-Tetrachloroethane	79-34-5	5		< 0.5	< 0.5	< 0.2	< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 1
,1,2-Trichloroethane	79-00-5	1		< 0.5	< 0.5	< 0.2	< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 0.8
,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5					< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	
.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-Dichloropropene	563-58-6									< 1	< 0.500	< 0.500	< 0.500	
,2,3-Trichlorobenzene	87-61-6		7				< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	
,2,3-Trichloropropane	96-18-4		-					< 1.0 			< 2.50	< 2.50		
,2,4-Trichlorobenzene		0.04								< 2.5			< 2.50	
	120-82-1	5		< 0.5	< 0.5	< 0.5	< 1.0	< 1.0		< 1	< 1.00	< 1.00	< 1.00	< 1
,2,4-Trimethylbenzene	95-63-6									< 1	< 0.500	< 0.500	< 0.500	
,2-Dibromo-3-chloropropane (DBCP)	96-12-8	-	0.00033				< 1.0	< 1.0		< 5	< 0.00500	< 0.00500	< 0.00500	
,2-Dibromoethane	106-93-4		0.0075				< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	
,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
,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
,2-Dichloroethene	540-59-0	5		< 0.5	< 0.5	< 0.2								< 0.8
,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
,3,5-Trimethylbenzene	108-67-8									< 1	< 0.500	< 0.500	< 0.500	
,3-Dichlorobenzene	541-73-1	3		< 0.5	< 0.5	< 0.2	< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 1
,3-Dichloropropane	142-28-9	5								< 1	< 1.00	< 1.00	< 1.00	
,4-Dichlorobenzene	106-46-7	3		< 0.5	< 0.5	< 0.2	< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 1
-Butanone (Methyl ethyl ketone)	78-93-3	50					< 5.0	< 5.0		< 10	< 5.00	< 5.00	< 5.00	
-Chloroethyl vinyl ether	110-75-8			< 2	< 2	< 0.2					< 50.0	< 50.0	< 50.0	< 2
-Hexanone	591-78-6	50					< 5.0	< 5.0			< 5.00	< 5.00	< 5.00	
-Isopropyltoluene	99-87-6									< 1	< 0.500	< 0.500	< 0.500	
-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
is-1,2-Dichloroethene	156-59-2	5		< 0.5	< 0.5	< 0.2	< 1.0	0.32 J		0.153 J	0.206 J	0.915 J3	< 0.500	
is-1,3-Dichloropropene	10061-01-5	0.4	42000	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 1
yclohexane	110-82-7		13000				< 1.0	< 1.0						
bibromochloromethane	124-48-1	50		< 0.5	< 0.5	< 0.2	< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 1
ibromomethane (Methylene bromide)	74-95-3									< 1	< 0.500	< 0.500	< 0.500	
ichlorodifluoromethane (Freon 12)	75-71-8		200				< 1.0	< 1.0		< 5	< 2.50	< 2.50	< 2.50	
iisopropyl ether	108-20-3		1500							< 1	0.601	< 0.500	< 0.500	
thylbenzene	100-41-4	5		< 0.5	< 0.5	< 0.4	< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 0.8
thyl-t-butylether	637-92-3													
exane	110-54-3										< 5.00	< 5.00	< 5.00	
sopropylbenzene	98-82-8		450				< 1.0	< 1.0		< 1	< 0.500	< 0.500	< 0.500	
n,p-Xylenes	XYLENES-MP						< 1.0	< 1.0						



Location ID		NIVO TOGO	USEPA	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-17
Sample Date	Davameter Code	NYS TOGS	Tapwater RSL	10/31/2017	6/12/2018	11/2/2018	6/20/2019	10/31/2019	12/3/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021	7/15/2009
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
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						
o-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	<u></u>		< 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		< 10 	< 10.5	< 10.0	< 10.0	< 2
4-Nitroaniline	100-44-5	5		< 0.5	< 0.5	< 0.9	< 10	< 10			< 5.25	< 5.00	< 5.00	< 1
4-Nitrophenol	100-01-6	1		< 10	< 10	< 10	< 20	< 20	 	< 10	< 10.5	< 10.0	< 10.0	< 11
T-MILLOPHICHUI	100-02-7	1		< 10	< 10	< 10	< 20	< 20		< 10	< 10.5	< 10.0	< 10.0	< 11



Location ID		NYS TOGS	USEPA	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-8A	DB-17
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	10/31/2017	6/12/2018	11/2/2018	6/20/2019	10/31/2019	12/3/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021	7/15/2009
Sample Purpose	r arameter code	- GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
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	< 1.0	< 1.0		< 10	< 10.5	< 10.0	< 10.0	
p-Chloro-m-cresol	59-50-7	1		< 0.5	< 0.7	< 0.7	< 10	< 10		< 10	< 10.5	< 10.0	< 1.00	< 2 < 1
Pentachlorophenol	87-86-5	1		< 0.5	< 0.5	< 0.5	< 10	< 20		< 10	< 1.05	< 1.00	< 1.00	< 3
Phenanthrene	87-86-5 85-01-8	50		< 0.1			< 20	< 10		< 10	< 0.0500	< 0.0500		
Phenol	108-95-2				< 0.1	< 0.1							< 0.0500	< 1
	129-00-0	1 50		< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1	< 10 < 10	< 10 < 10		< 10 < 1	< 10.5 < 0.0500	< 10.0 < 0.0500	< 10.0 < 0.0500	< 1
Pyrene Metals	129-00-0	50		< U.1	< 0.1	< 0.1	< 10	< 10		< 1	< 0.0000	< 0.0000	< 0.000	< 1
Aluminum	7429-90-5	100												
Aluminum (Dissolved)		100												
	7429-90-5	100												
Antimony (Dissalved)	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 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
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												

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		NYS TOGS	USEPA	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17A	DB-17A	DB-17A
Sample Date	Parameter Code	GWQS	Tapwater RSL	11/10/2009	10/23/2012	6/11/2013	6/11/2014	11/2/2018	4/23/2020	4/28/2021	10/6/2021	6/11/2008	10/12/2010	5/11/2011
Sample Purpose	T drameter code		2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
olatile Organic Compounds														
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
1,1,2-Tetrachloroethane	630-20-6								< 1	< 0.500	< 0.500			
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
,1,2,2-Tetrachloroethane	79-34-5	5		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 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
1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5							< 1	< 0.500	< 0.500			
,1-Dichloroethane	75-34-3	5		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
1-Dichloropropene	563-58-6								< 1	< 0.500	< 0.500			
2,3-Trichlorobenzene	87-61-6		7						< 1	< 0.500	< 0.500			
,2,3-Trichloropropane	96-18-4	0.04							< 2.5	< 2.50	< 2.50			
,2,4-Trichlorobenzene	120-82-1	5		< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1.00	< 1.00	< 1		
,2,4-Trimethylbenzene	95-63-6								< 1	< 0.500	< 0.500			
,2-Dibromo-3-chloropropane (DBCP)	96-12-8		0.00033						< 5	< 0.00500	< 0.00500			
,2-Dibromoethane	106-93-4		0.0075						< 1	< 0.500	< 0.500			
,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
,2-Dichloroethane	107-06-2	0.6		< 1	< 1	< 1	< 0.5	< 0.3	< 1	< 0.500	< 0.500	< 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
,2-Dichloropropane	78-87-5	1		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
,3,5-Trimethylbenzene	108-67-8	<u></u>							< 1	< 0.500	< 0.500			
,3-Dichlorobenzene	541-73-1	3		< 1	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
,3-Dichloropropane	142-28-9	5							< 1	< 1.00	< 1.00			
,4-Dichlorobenzene	106-46-7	3		< 1	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
-Butanone (Methyl ethyl ketone)	78-93-3	50							< 10	< 5.00	< 5.00			
-Chloroethyl vinyl ether	110-75-8													
				< 2	< 2	< 2	< 2	< 0.2		< 50.0	< 50.0	< 2	< 2	< 2
-Hexanone	591-78-6	50	-							< 5.00	< 5.00			
-Isopropyltoluene	99-87-6	-							< 1	< 0.500	< 0.500			
-Methyl-2-pentanone	108-10-1		6300						< 10	< 5.00	< 5.00			
cetone	67-64-1	50							< 50	< 25.0	< 25.0			
crylonitrile	107-13-1								< 10	< 5.00	< 5.00			
enzene	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
enzidine	92-87-5								< 10					
romobenzene	108-86-1								< 1	< 0.500	< 0.500			
romochloromethane	74-97-5	-	83							< 0.500	< 0.500			
romodichloromethane	75-27-4	50		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
romoform	75-25-2	50		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
romomethane (Methyl bromide)	74-83-9	5		< 1	< 1	< 1	< 0.5	< 0.3	< 5	< 2.50	< 2.50	< 1	< 1	< 1
arbon disulfide	75-15-0	60								< 0.500	< 0.500			
arbon Tetrachloride	56-23-5	5		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
hlorobenzene	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
hloroethane	75-00-3	5		< 1	< 1	< 1	< 0.5	< 0.2	< 5	< 2.50	< 2.50	< 1	< 1	< 1
hloroform	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
is-1,2-Dichloroethene	156-59-2	5							< 1	< 0.500	< 0.500			
s-1,3-Dichloropropene	10061-01-5	0.4		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
yclohexane	110-82-7	-	13000											
ibromochloromethane	124-48-1	50		< 1	< 1	< 1	< 0.5	< 0.2	< 1	< 0.500	< 0.500	< 1	< 1	< 1
bromomethane (Methylene bromide)	74-95-3								< 1	< 0.500	< 0.500			
ichlorodifluoromethane (Freon 12)	75-71-8		200						< 5	< 2.50	< 2.50			
iisopropyl ether	108-20-3		1500	 					< 1	< 0.500	< 0.500			
thylbenzene	100-20-3	5	1500	< 0.8	< 0.8	< 0.8	< 0.5	< 0.4	< 1			< 0.8	< 0.8	< 0.8
										< 0.500	< 0.500			
thyl-t-butylether	637-92-3													
exane	110-54-3									< 5.00	< 5.00			
sopropylbenzene	98-82-8		450						< 1	< 0.500	< 0.500			



		USEPA	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17A	DB-17A	DB-17A
													5/11/201
Parameter Code	GWQS	2019											REG
			20		20	20	1120	20					20
79-20-9		20000											
108-87-2													
75-09-2	5		< 2	< 2	< 2	< 2	< 0.3	< 5	< 2.50	< 2.50	< 2	< 2	< 2
1634-04-4	10		< 0.5			1	< 0.2	< 1			1	< 0.5	< 0.5
104-51-8								< 1					
									< 0.500	< 0.500			
95-49-8									1				
		190											
									< 0.500				
									1				
100-42-5	5							< 1	1				
	5												< 0.8
	5												< 0.7
									1				< 1
									1				< 1
													< 2
									1				
													< 1
						1		1					< 0.8
1000 20 1			V 0.0	V 0.0	V 0.0	V 0.0		7.0	V 1.00	V 1.00	V 0.0	V 0.0	V 0.0
95-94-3		1.7							< 10.0	< 10.0			
									1				
	•					1			1				
	5												
						1							
						1							
	•					1			1				
						1			1				
	I												
	F												
									1				
	•												
						1			1				
						1							
	1												
100-01-6	5		< 1	< 0.5	< 0.5	< 0.5	< 0.9		< 5.00	< 5.00	< 1		
100-02-7	1		< 10	< 10	< 11	< 10	< 11	< 10	< 10.0	< 10.0	< 10		
	108-87-2 75-09-2 1634-04-4 104-51-8 62-75-9 103-65-1 95-49-8 95-47-6 106-43-4 135-98-8 594-20-7 100-42-5 98-06-6 994-05-8 75-65-0 127-18-4 108-88-3 156-60-5 10061-02-6 110-57-6 79-01-6 75-69-4 108-05-4 75-01-4 1330-20-7 95-94-3 123-91-1 58-90-2 95-95-4 88-06-2 120-83-2 105-67-9 51-28-5 121-14-2 606-20-2 91-58-7 95-57-8 91-57-6 95-48-7 88-74-4 88-75-5 65794-96-9 91-94-1 99-09-2 534-52-1 101-55-3 106-47-8 7005-72-3 106-44-5	79-20-9 108-87-2 75-09-2 5 1634-04-4 10 104-51-8 62-75-9 103-65-1 95-49-8 95-47-6 106-43-4 135-98-8 594-20-7 100-42-5 5 98-06-6 994-05-8 75-65-0 127-18-4 5 108-88-3 5 156-60-5 5 10061-02-6 0.4 110-57-6 79-01-6 5 75-69-4 5 108-05-4 75-01-4 2 1330-20-7 5 95-94-3 123-91-1 58-90-2 95-95-4 1 88-06-2 1 120-83-2 5 105-67-9 50 51-28-5 10 121-14-2 5 606-20-2 5 91-58-7 10 95-57-8 1 91-57-6 95-48-7 1 88-74-4 5 88-75-5 1 65794-96-9 91-94-1 5 99-09-2 5 534-52-1 1 101-55-3 106-47-8 5 7005-72-3 106-44-5 1	Parameter Code	Parameter Code RYS TOGS GWQS Tapwater RSL 2019 REG	Parameter Code	Parameter Code NYS TOSS GWOS Tapwator RSL 2019 REG REG	Parameter Code Parameter RSL 2019 REG REG	Parameter Code New York State 11/10/2009 10/23/2012 6/11/2013 6/11/2014 REG REG	Parameter Code West Code Code	Parameter Code New York Tenware RSL 2010 REG REG	Parameter Code Para	Parameter Composition Para	Parameter Cook



Location ID			USEPA	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17	DB-17A	DB-17A	DB-17A
		NYS TOGS	Tapwater RSL	11/10/2009	10/23/2012	6/11/2013	6/11/2014	11/2/2018	4/23/2020	4/28/2021	10/6/2021	6/11/2008	10/12/2010	5/11/2011
Sample Date	Parameter Code	GWQS	2019											
Sample Purpose Parameter Name			2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
cenaphthylene	208-96-8			< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.0500	< 0.0500	< 1		
cetophenone	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		
ois(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		
pis(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 5		< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 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	< 2	< 2	< 2	< 2	< 2	< 3	< 10.0	< 3.00 5.70 J	< 2		
Carbazole	86-74-8			 < 1	< 0.5	< 0.5	< 0.5	< 0.5		< 10.0	< 10.0	< 1		
Carbazole Chrysene	218-01-9	0.002		< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.0500	< 0.0500	< 1		
Dibenz(a,h)anthracene	84-74-2	50			< 0.1	< 0.1	< 0.1		< 0.2	< 0.0500	< 0.0500			
Diberiz(a,ri)aritiriacerie Dibenzofuran	117-84-0	50		< 1 < 1	< 0.5	< 0.5		< 0.1		< 0.0500	< 0.0500	< 1 < 1		
Diethylphthalate	53-70-3	50	0.025	< 2	< 0.5		< 0.5 < 2	< 0.5 < 2		< 3.00		< 2		
Dimethyl phthalate	132-64-9	50	7.9	< 2	< 2	< 2	< 2	< 2	< 3 < 3	< 3.00	< 3.00	< 2		
	84-66-2					< 2					< 3.00			
Di-n-butylphthalate Di-n-octylphthalate	131-11-3	50		< 2	< 2	< 2	< 2	< 2	< 3	< 3.00	< 3.00	< 2		
· · · · · · · · · · · · · · · · · · ·		50		< 2	< 2	< 2	< 2	< 5	< 3	< 3.00	< 3.00	< 2		
Diphenyl (Biphenyl, Phenyl benzene)	92-52-4	 E0	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 Hexachloroethane	77-47-4	5		< 5	< 5	< 5	< 5	< 5	< 10	< 5.00	< 5.00	< 5		
	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 50	-	< 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												

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		NYS TOGS	USEPA	DB-17A	DB-17A	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date	Parameter Code	GWQS	Tapwater RSL	11/10/2011	6/20/2019	8/22/2007	11/28/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010	5/11/2011
Sample Purpose		5.1.45	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name olatile Organic Compounds														-
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
1,1,2-Tetrachloroethane	630-20-6													
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
,1,2,2-Tetrachloroethane	79-34-5	5		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
,1,2-Trichloroethane	79-34-3	3 1		< 0.8	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
,1,2-Theriloroethane ,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5			< 1.0									
,1-Dichloroethane	75-34-3	5		 < 1	< 1.0	 < 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
,1-Dichloropropene	563-58-6													
,2,3-Trichlorobenzene	87-61-6		7		< 1.0	 								
,2,3-Trichloropropane	96-18-4	0.04												
,2,4-Trichlorobenzene	120-82-1	5		< 0.5	< 1.0									
,2,4-Trichloroberizerie	95-63-6					< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
,2,4-11metriyiberizene ,2-Dibromo-3-chloropropane (DBCP)														
,2-Dibromo-3-chioropropane (DBCP) ,2-Dibromoethane	96-12-8		0.00033		< 1.0									
•	106-93-4		0.0075	 - 0 F	< 1.0									
,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3		< 0.5	< 1.0	< 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
,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
,2-Dichloropropane	78-87-5	1		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
,3,5-Trimethylbenzene	108-67-8		-		4.0									
,3-Dichlorobenzene	541-73-1	3		< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3-Dichloropropane	142-28-9	5									<u></u>			
4-Dichlorobenzene	106-46-7	3		< 0.5	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
-Butanone (Methyl ethyl ketone)	78-93-3	50			< 5.0									
-Chloroethyl vinyl ether	110-75-8			< 2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
-Hexanone	591-78-6	50			< 5.0									
-Isopropyltoluene	99-87-6													
-Methyl-2-pentanone	108-10-1		6300		< 5.0									
cetone	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									
romodichloromethane	75-27-4	50		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
romoform	75-25-2	50		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
romomethane (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
hloroethane	75-00-3	5		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
hloroform	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
hloromethane (Methyl chloride)	74-87-3	5		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
s-1,2-Dichloroethene	156-59-2	5			< 1.0									
s-1,3-Dichloropropene	10061-01-5	0.4		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
yclohexane	110-82-7		13000		< 1.0									
bromochloromethane	124-48-1	50		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bromomethane (Methylene bromide)	74-95-3													
ichlorodifluoromethane (Freon 12)	75-71-8		200		< 1.0									
isopropyl ether	108-20-3		1500											
thylbenzene	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
thyl-t-butylether	637-92-3													
exane	110-54-3													
copropylbenzene	98-82-8		450		< 1.0									
,p-Xylenes	XYLENES-MP				< 1.0									



Location ID		NVS TOCS	USEPA	DB-17A	DB-17A	OR-2								
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	11/10/2011	6/20/2019	8/22/2007	11/28/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010	5/11/2011
Sample Purpose	Farameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
lethyl acetate	79-20-9		20000		< 5.0									
lethylcyclohexane	108-87-2				< 1.0									
fethylene chloride (Dichloromethane)	75-09-2	5		< 2	< 1.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Nethyl-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													
-Xylene	95-47-6		190		< 1.0									
-Chlorotoluene	106-43-4													
sec-Butylbenzene	135-98-8													
sec-Dichloropropane	594-20-7													
Styrene	100-42-5	5			< 1.0									
-Butylbenzene	98-06-6													
ert-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
rans-1,2-Dichloroethene	156-60-5	5			< 1.0									
rans-1,3-Dichloropropene	10061-02-6	0.4		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
rans-1,4-Dichloro-2-Butene	110-57-6													
richloroethene (Trichloroethylene)	79-01-6	5		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
richlorofluoromethane (Freon 11)	75-69-4	5		< 2	< 1.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
/inyl Acetate	108-05-4													
/inyl chloride (Chloroethene)	75-01-4	2		< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
(ylene (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														
,2,4,5-Tetrachlorobenzene	95-94-3		1.7		< 10									
,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	<u></u>	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
H-Nitroaniline	99-09-2	5		< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1			< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
I-Bromophenylphenylether	101-55-3			< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
I-Chloroaniline	101-35-3	5		< 0.5	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
	7005-72-3													
I-Chlorophenyl phenyl ether	106-44-5	 1		< 0.5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
-Methylphenol (p-Cresol)		1		< 0.5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
I-Nitroaniline	100-01-6	5		< 0.5 < 10	< 10 < 20	< 1 < 10								
-Nitrophenol	100-02-7	1												



Location ID			USEPA	DB-17A	DB-17A	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date		NYS TOGS	Tapwater RSL	11/10/2011	6/20/2019	8/22/2007	11/28/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010	5/11/2011
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	0/12/2008 REG	REG	REG	REG	7/20/2010 REG	REG	REG
Parameter Name				INEO	KEO	KLO	REG	KEO	KLO	KEO	KEO	KEO	KEO	KEO
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 50		< 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	7400.00.5	460					1							
Aluminum (Disselved)	7429-90-5	100												
Aluminum (Dissolved)	7429-90-5	100												
Antimony (Dissolved)	7440-36-0	3												
Antimony (Dissolved)	7440-36-0	3												
Arsenic (Disselved)	7440-38-2	25												
Arsenic (Dissolved)	7440-38-2	25												
Barium (Disselved)	7440-39-3	1,000	-											
Barium (Dissolved)	7440-39-3	1,000												
Beryllium Renyllium (Discolused)	7440-41-7	3												
Beryllium (Dissolved)	7440-41-7	3												
Cadmium	7440-43-9	5												



40-43-9 40-70-2		Tapwater RSL 2019	11/10/2011 REG	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
	5												
40-70-2													
40-47-3	50												
40-47-3	50												
40-48-4	5												
40-48-4	5												
40-50-8	200												
40-50-8	200												
39-89-6	300												
39-89-6	300												
39-92-1	25				< 6.9	< 6.9	< 6.9	< 6.9					
39-92-1	25		< 2.2	< 1.2					< 6.9	< 6.9	< 6.9	< 6.9	< 6.9
39-95-4	35,000												
39-95-4	35,000												
39-96-5	300												
39-96-5	300												
40-02-0	100												
40-02-0	100												
40-09-7													
40-09-7													
82-49-2	10												
82-49-2	10												
40-22-4	50												
40-22-4	50												
40-23-5	20,000												
40-23-5	20,000												
40-28-0	0.5												
40-28-0	0.5												
40-62-2		86											
40-62-2		86											
40-66-6	2000												
40-66-6	2000												
39-97-6	0.7												
39-97-6	0.7												
40-62-2 40-62-2 40-66-0 40-66-0 39-97-0	2 2 6 6	2 2 6 2000 6 2000 6 0.7	2 86 2 86 6 2000 6 6 2000 6 6 0.7	2 86 2 86 6 2000 6 0.7	2 86 65 2000 65 0.7	2 86 65 2000 65 0.7	2 86	2 86	2 86	2 86	2 86	2 86	2 86

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		NYS TOGS	USEPA	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date	Parameter Code	GWQS	Tapwater RSL	11/10/2011	7/18/2012	10/23/2012	6/11/2013	6/11/2013	11/14/2013	6/11/2014	6/11/2014	11/11/2014	11/11/2014	6/19/2015
Sample Purpose	T arameter code	GWQS	2019	REG	REG	REG	FD	REG	REG	FD	REG	FD	REG	REG
Parameter Name														
olatile Organic Compounds	75.05.4													
,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
,1,1,2-Tetrachloroethane	630-20-6	<u></u>	-											
,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
,1,2,2-Tetrachloroethane	79-34-5	5		< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
I,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
,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	-											
,1-Dichloroethane	75-34-3	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
,1-Dichloropropene	563-58-6		-											
,2,3-Trichlorobenzene	87-61-6		7											
,2,3-Trichloropropane	96-18-4	0.04												
,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
,2,4-Trimethylbenzene	95-63-6													
,2-Dibromo-3-chloropropane (DBCP)	96-12-8		0.00033											
1,2-Dibromoethane	106-93-4	<u></u>	0.0075											
I ,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	<u></u>	-											
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	 F0	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	591-78-6	50	-											
1-Isopropyltoluene	99-87-6													
4-Methyl-2-pentanone	108-10-1	 E0	6300											
Acetone Acrylonitrile	67-64-1 107-13-1	50	-											
Acrylonitrile Benzene														
Benzidine	71-43-2 92-87-5	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromobleremethane	108-86-1													
Bromochloromethane Bromodichloromethane	74-97-5	 E0	83							 - 0 F		 - 0 F	 - 0 F	 - 0 F
Bromoform	75-27-4 75-25-2	50 50		< 1	< 1	< 1 < 1	< 1 < 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromororm Bromomethane (Methyl bromide)	75-25-2 74-83-9	50		< 1	< 1			< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
, ,			-	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide Carbon Tetrachloride	75-15-0 56-23-5	60												
Chlorobenzene	108-90-7	5 5		< 1 < 0.8	< 1 < 0.8	< 1	< 1	< 1 < 0.8	< 1 < 0.8	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5
Chloroethane	75-00-3	5 5				< 0.8	< 0.8			< 0.5	< 0.5	< 0.5		< 0.5
Chloroform		7		< 1	< 1	< 1	< 1	< 1 < 0.8	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane (Methyl chloride)	67-66-3 74-87-3		-	< 0.8	< 0.8	< 0.8	< 0.8		< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	74-87-3 156-59-2	5 5		< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	10061-01-5 110-82-7	0.4	12000	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cyclohexane Dibromochloromethane		 50	13000											
Dibromocnioromethane Dibromomethane (Methylene bromide)	124-48-1 74-95-3			< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
` ,			200											
Dichlorodifluoromethane (Freon 12)	75-71-8		200											
Disopropyl 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	-												
lexane	110-54-3	-												
sopropylbenzene	98-82-8		450											
m,p-Xylenes	XYLENES-MP													



Location ID			USEPA	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date		NYS TOGS	Tapwater RSL	11/10/2011	7/18/2012	10/23/2012	6/11/2013	6/11/2013	11/14/2013	6/11/2014	6/11/2014	11/11/2014	11/11/2014	6/19/2015
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	FD	REG	REG	FD	REG	FD	REG	REG
Parameter Name				REG	REG	REG	۲۰	REG	REG	F.D.	REG	FD	REG	REG
ethyl acetate	79-20-9		20000											
ethylcyclohexane	108-87-2													
lethylene chloride (Dichloromethane)	75-09-2	5		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
lethyl-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
-Butylbenzene	104-51-8													
-Nitrosodimethylamine	62-75-9		-											
-Propylbenzene	103-65-1													
-Chlorotoluene	95-49-8													
-Xylene	95-47-6		190											
-Chlorotoluene	106-43-4													
ec-Butylbenzene	135-98-8													
	594-20-7		-											
ec-Dichloropropane														
tyrene	100-42-5	5												
Butylbenzene	98-06-6													
ert-Amyl methyl ether	994-05-8		-											
Tertiary Butyl Alcohol	75-65-0													
etrachloroethene	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
oluene	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
rans-1,2-Dichloroethene	156-60-5	5	-											
rans-1,3-Dichloropropene	10061-02-6	0.4		< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ans-1,4-Dichloro-2-Butene	110-57-6													
richloroethene (Trichloroethylene)	79-01-6	5		< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
richlorofluoromethane (Freon 11)	75-69-4	5		< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
inyl Acetate	108-05-4													
inyl chloride (Chloroethene)	75-01-4	2		< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
(ylene (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			1	1	1	1	1	
,2,4,5-Tetrachlorobenzene	95-94-3		1.7											
,4-Dioxane	123-91-1		0.46											
,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
,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
,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
,4-Dinitrotoluene	121-14-2	5		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
,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
-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
-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
-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
-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
-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
-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
& 4-Methylphenol	65794-96-9													
3'-Dichlorobenzidine	91-94-1	5		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
-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
6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
-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
-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
-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
-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
-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
-Nitrophenol	100-02-7	1		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11
cenaphthene	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



Location ID			USEPA	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date		NYS TOGS	Tapwater RSL	11/10/2011	7/18/2012	10/23/2012	6/11/2013	6/11/2013	11/14/2013	6/11/2014	6/11/2014	11/11/2014	11/11/2014	6/19/2015
	Parameter Code	GWQS	2019	REG	REG	10/23/2012 REG		REG	REG	6/11/2014 FD	0/11/2014 REG		REG	0/19/2013 REG
Sample Purpose Parameter Name			2013	REG	REG	REG	FD	KEG	KEG	FD	REG	FD	KEG	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												

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		NYS TOGS	USEPA	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date	Parameter Code	GWQS	Tapwater RSL	11/13/2015	6/14/2016	11/15/2016	6/27/2017	11/1/2017	6/13/2018	11/5/2018	6/21/2019	10/30/2019	4/23/2020	10/12/2020
Sample Purpose Parameter Name		01140	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
/olatile 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-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	<u>-</u>											< 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	< 0.6		< 0.2				< 0.500
•		50			< 0.5				< 0.5		< 1.0	< 1.0	< 1	
2-Butanone (Methyl ethyl ketone)	78-93-3										< 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		<u></u>											
Hexane	110-54-3		<u></u>											< 5.00
sopropylbenzene	98-82-8		450								< 1.0	< 1.0	< 1	< 0.500
n,p-Xylenes	XYLENES-MP										< 1.0	< 1.0		



Location ID			USEPA	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date		NYS TOGS	Tapwater RSL	11/13/2015	6/14/2016	11/15/2016	6/27/2017	11/1/2017	6/13/2018	11/5/2018	6/21/2019	10/30/2019	4/23/2020	10/12/2020
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name				KEO	KEO	KEO	KEO	KLO	KEO	KEO	KEO	KLO	KEO	KEO
lethyl 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
1ethyl-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
p-Chlorotoluene	95-49-8												< 1	< 0.500
p-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
:-Butylbenzene	98-06-6												< 1	< 0.500
ert-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			< 1.0	< 1.0	< 5	< 2.50
Vinyl Acetate	108-05-4	<u></u>		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0	< 1.0	< 5	< 5.00
Vinyl chloride (Chloroethene)	75-01-4	2			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2				< 0.500
Xylene (total)	1330-20-7	5		< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 1.0	< 1.0	< 1	< 0.500
Semivolatile Organic Compounds	1330-20-7	3		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1			< 3	< 1.50
1,2,4,5-Tetrachlorobenzene	95-94-3		4.7								. 10	. 10		. 10.0
1,4-Dioxane	123-91-1	-	1.7 0.46								< 10 < 50	< 10 < 50		< 10.0
2,3,4,6-Tetrachlorophenol	58-90-2		240								< 10	< 10		
2,4,5-Trichlorophenol						 - 0 F			 - 0 F	 - 0 F				
•	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 5		< 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	•		< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 5.00
2,4-Dimethylphenol 2,4-Dinitrophenol	105-67-9 51-28-5	50 10	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 3	< 3	< 10 < 20	< 10	< 10	< 10.0
2,4-Dinitroprienoi		10		< 10	< 10	< 10	< 10	< 11	< 14	< 15		< 20	< 10	< 10.0
·	121-14-2	J		< 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
I,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	<u></u>		< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10	< 10	< 10.0
1-Chloroaniline	106-47-8	5		< 2	< 2	< 2	< 2	< 2	< 4	< 4	< 10	< 10		< 5.00
-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
-Methylphenol (p-Cresol)	106-44-5	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5	< 10	< 10		
I-Nitroaniline	100-01-6	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.9	< 0.9	< 10	< 10		< 5.00
I-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



Location ID		NVC TOCO	USEPA	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2	OR-2
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	11/13/2015	6/14/2016	11/15/2016	6/27/2017	11/1/2017	6/13/2018	11/5/2018	6/21/2019	10/30/2019	4/23/2020	10/12/2020
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
cenaphthylene	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												



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												

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		NYS TOGS	USEPA	OR-2	OR-2	OR-2	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3
Sample Date	Parameter Code	GWQS	Tapwater RSL	4/26/2021	10/7/2021	10/7/2021	8/22/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010
Sample Purpose	T drameter code	OWGO	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
Volatile Organic Compounds	75.05.4	_		0.500	0.500	0.500	0.0	2.2	0.0	0.0	0.0	0.0	0.0	
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-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	<u></u>							
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	<u></u>							
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													



Location ID		NIVE TOO	USEPA	OR-2	OR-2	OR-2	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3
Sample Date	Boromotor Codo	NYS TOGS	Tapwater RSL	4/26/2021	10/7/2021	10/7/2021	8/22/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
Methyl acetate	79-20-9		20000											
Nethylcyclohexane	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
1,6-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
1-Bromophenylphenylether	101-55-3			< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-Chloroaniline	106-47-8	5		< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
I-Chlorophenyl phenyl ether	7005-72-3			< 10.0	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1-Methylphenol (p-Cresol)	106-44-5	1					< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1-Nitroaniline	100-01-6	5		< 5.00	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-Nitrophenol	100-02-7	1		< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	83-32-9	20		< 0.0500	0.341	0.294	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1



Location ID			USEPA	OR-2	OR-2	OR-2	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3
Sample Date	D	NYS TOGS	Tapwater RSL	4/26/2021	10/7/2021	10/7/2021	8/22/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
Acenaphthylene	208-96-8			< 0.0500	0.144	0.112	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cetophenone	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
pis(2-Chloroethoxy)methane	111-91-1	5		< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ois(2-Chloroethyl) ether	111-44-4	1		< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ois(2-chloroisopropyl) ether	108-60-1	5		< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pis(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
ndeno(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
sophorone	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
Vitrobenzene	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
o-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	.25 50 0			5.0102 0	0.170	0.10	` '		` '	` '		` '	` '	<u> </u>
Aluminum	7429-90-5	100												
Aluminum (Dissolved)	7429-90-5	100												
Antimony	7440-36-0	3												
Antimony (Dissolved)	7440-36-0	3		 										
Aritimony (Dissolved) Arsenic	7440-38-2	25												
Arsenic (Dissolved)	7440-38-2	25 25												
Arsenic (Dissolved) Barium	7440-38-2 7440-39-3													
		1,000												
Barium (Dissolved)	7440-39-3	1,000												
Beryllium Beryllium (Dissolved)	7440-41-7 7440-41-7	3												
		3												



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
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												

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		NYS TOGS	USEPA	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3
Sample Date	Parameter Code	GWQS	Tapwater RSL	5/11/2011	11/10/2011	11/10/2011	7/18/2012	10/23/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014	11/11/2014	6/19/2015
Sample Purpose	rarameter code	GWQS	2019	REG	FD	REG	REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name														
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	<u>-</u>												
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 Acrylonitrile	67-64-1 107-13-1	50												
Benzene														
Benzidine	71-43-2 92-87-5	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
		-												
Bromobenzene Bromochloromethane	108-86-1 74-97-5													
Bromodichloromethane		50	83											
Bromoform	75-27-4 75-25-2	50 50		< 1	< 1 < 1	< 1	< 1	< 1	< 1	< 1	< 1 < 1	< 0.5	< 0.5	< 0.5
Bromomethane (Methyl bromide)	74-83-9			< 1		< 1	< 1		< 1	< 1		< 0.5	< 0.5	< 0.5
Carbon disulfide	74-83-9 75-15-0	5 60		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Carbon disuitide Carbon Tetrachloride	75-15-0 56-23-5	5		 < 1			 <1	 < 1		 - 1		< 0.5	 < 0.5	< 0.5
Chlorobenzene	108-90-7	5 5		< 0.8	< 1	< 1 < 0.8	< 0.8	< 0.8	< 1 < 0.8	< 1	< 1 < 0.8	< 0.5		
Chloroethane	75-00-3	5 5			< 0.8					< 0.8		< 0.5	< 0.5 < 0.5	< 0.5 < 0.5
Chloroform	67-66-3	7		< 1 < 0.8	< 1	< 1 < 0.8	< 0.5	< 0.5						
Chloromethane (Methyl chloride)	74-87-3	-								< 0.8				< 0.5
cis-1,2-Dichloroethene		5 5		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
	156-59-2													
cis-1,3-Dichloropropene	10061-01-5 110-82-7	0.4	12000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
Cyclohexane Dibromochloromethane		 50	13000											
Dibromochloromethane Dibromomethane (Methylene bromide)	124-48-1	50		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5
, ,	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	-	450											
sopropylbenzene	98-82-8		450											



Location ID		NVS TOCS	USEPA	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	5/11/2011	11/10/2011	11/10/2011	7/18/2012	10/23/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014	11/11/2014	6/19/2015
Sample Purpose	rarameter code	GWQS	2019	REG	FD	REG	REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name														
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													< 0.5
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	1330-20-7	3		₹ 0.8	₹ 0.6	< 0.8	< 0.8	< 0.6	₹ 0.8	< 0.6	< 0.6	< 0.5	< 0.5	< 0.5
1,2,4,5-Tetrachlorobenzene	95-94-3		1.7											
1,4-Dioxane														
2,3,4,6-Tetrachlorophenol	123-91-1 58-90-2		0.46											
2,4,5-Trichlorophenol		1	240											
	95-95-4	•	-	< 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)		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
	400.00.7			. 40	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11	< 10
4-Nitrophenol	100-02-7	1		< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 11	< 10



Location ID			USEPA	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3
Sample Date		NYS TOGS	Tapwater RSL	5/11/2011	11/10/2011	11/10/2011	7/18/2012	10/23/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014	11/11/2014	6/19/2015
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name				NEO .		1120	1120		NEO .	NEO .	NEO	NEO	ILEO	
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												
Barium (Dissolved) Beryllium		1,000 3												
, ,	7440-39-3	•												



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												
		•												

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



Sample Purpose Parameter Name Volatile Organic Compounds 1,1 Dichloroethene 75 1,1,1,2-Tetrachloroethane 71 1,1,2-Trichloroethane 72 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1-Dichloroethane 75 1,1-Dichloropropene 56 1,2,3-Trichloropene 87 1,2,3-Trichloropropane 95 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dichloroethane 10 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,3-Dichloropropane 78 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11	75-35-4 30-20-6 71-55-6 79-34-5 79-00-5 76-13-1 75-34-3 63-58-6 87-61-6 96-18-4 20-82-1 95-63-6 96-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 5 5 5 0.04 5		< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	<pre>11/5/2018 FD < 0.2 < 0.3 < 0.2</pre>	11/5/2018 REG < 0.2 < 0.3 < 0.2	6/21/2019 REG < 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0 < 1.0	4/23/2020 REG < 1 < 1 < 1	< 0.500 < 0.500 < 0.500 < 0.500
Sample Purpose	75-35-4 30-20-6 71-55-6 79-34-5 79-00-5 76-13-1 75-34-3 63-58-6 87-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 5 5 1 5 5 0.04 5	 7	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5	< 0.2 < 0.3 < 0.2	< 0.2 < 0.3	< 1.0 < 1.0	< 1.0 < 1.0	< 1 < 1 < 1	< 0.500 < 0.500
	30-20-6 71-55-6 79-34-5 79-00-5 76-13-1 75-34-3 63-58-6 37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 5 1 5 5 5 0.04 5	 7	 < 0.5 < 0.5 < 0.5 < 0.5 	 < 0.5 < 0.5 < 0.5 < 0.5	 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5	 < 0.5 < 0.5	 < 0.3 < 0.2	 < 0.3	 < 1.0	 < 1.0	< 1 < 1	< 0.500
1,1 Dichloroethene 75 1,1,1,2-Tetrachloroethane 63 1,1,1,1-Trichloroethane 71 1,1,2,2-Tetrachloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1-Dichloroethane 75 1,1-Dichloropropene 56 1,2,3-Trichlorobenzene 87 1,2,3-Trichloropropane 96 1,2,3-Trichlorobenzene 12 1,2,4-Trimethylbenzene 95 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethane 10 1,2-Dichloropropane 78 1,3-Dichloropropane 78 1,3-Dichloropropane 14 1,4-Dichloropropane 14 1,4-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Lexanone 40 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 A	30-20-6 71-55-6 79-34-5 79-00-5 76-13-1 75-34-3 63-58-6 37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 5 1 5 5 5 0.04 5	 7	 < 0.5 < 0.5 < 0.5 < 0.5 	 < 0.5 < 0.5 < 0.5 < 0.5	 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5	 < 0.5 < 0.5	 < 0.3 < 0.2	 < 0.3	 < 1.0	 < 1.0	< 1 < 1	< 0.500
1,1,1,2-Tetrachloroethane 63 1,1,1-Trichloroethane 71 1,1,2,2-Tetrachloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1-Dichloropropene 56 1,1-Dichloropropene 87 1,2,3-Trichlorobenzene 87 1,2,3-Trichloropropane 96 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethane 10 1,2-Dichloropropane 78 1,3-5-Trimethylbenzene 10 1,3-Dichloropropane 14 1,3-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 67 Acylonitrile 10 3-Cetone 67 4-Methyl-2-pentanone 71 3-Centrickloromethane 72	30-20-6 71-55-6 79-34-5 79-00-5 76-13-1 75-34-3 63-58-6 37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 5 1 5 5 5 0.04 5	 7	 < 0.5 < 0.5 < 0.5 < 0.5 	 < 0.5 < 0.5 < 0.5 < 0.5	 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5	 < 0.5 < 0.5	 < 0.3 < 0.2	 < 0.3	 < 1.0	 < 1.0	< 1 < 1	< 0.500
1,1,1-Trichloroethane 71 1,1,2,2-Tetrachloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1-Dichloropropene 56 1,1-Dichloropropene 87 1,2,3-Trichlorobenzene 87 1,2,3-Trichlorobenzene 12 1,2,4-Trimethylbenzene 95 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethane 10 1,2-Dichloroethane 10 1,2-Dichloropropane 78 1,3-5-Trimethylbenzene 10 1,3-Dichlorobenzene 10 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 99 4-Nethyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzidine 92 Bromobloromethane	71-55-6 79-34-5 79-00-5 76-13-1 75-34-3 63-58-6 37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 5 1 5 5 0.04 5	 7	< 0.5 < 0.5 < 0.5 < 0.5 	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5	< 0.5 < 0.5	< 0.3 < 0.2	< 0.3	< 1.0	< 1.0	< 1	
1,1,2,2-Tetrachloroethane 75 1,1,2-Trichloroethane 75 1,1,2-Trichloroethane 75 1,1-Dichloroethane 75 1,1-Dichloropropene 56 1,2,3-Trichlorobenzene 87 1,2,3-Trichlorobenzene 96 1,2,3-Trichlorobenzene 12 1,2,4-Trimethylbenzene 95 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,3-Dichloropropane 76 1,3-Dichlorobenzene 10 1,3-Dichlorobenzene 10 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 99 4-Hsopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 7	79-34-5 79-00-5 76-13-1 75-34-3 63-58-6 87-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 1 5 5 0.04 5	 7	< 0.5 < 0.5 < 0.5 	< 0.5 < 0.5 < 0.5	< 0.5 < 0.5 	< 0.5 < 0.5	< 0.5	< 0.2					< 0.500
1,1,2-Trichloroethane 75 1,1,2-Trichlorotrifluoroethane (Freon 113) 76 1,1-Dichloroethane 75 1,1-Dichloropropene 56 1,2,3-Trichlorobenzene 87 1,2,3-Trichloropropane 96 1,2,3-Trichlorobenzene 12 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichlorobenzene (o-Dichlorobenzene) 10 1,2-Dichloroethane 10 1,2-Dichloropropane 78 1,3-Dichloropropane 14 1,3-Dichloropropane 14 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzene 71 Bromobenzene 10 Brom	79-00-5 76-13-1 75-34-3 63-58-6 87-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	1 5 5 0.04 5 	 7	< 0.5 < 0.5 	< 0.5 < 0.5 	< 0.5 	< 0.5			< 0.2	< 1.0		- 1	< 0.500
1,1,2-Trichlorotrifluoroethane (Freon 113) 76 1,1-Dichloroethane 75 1,1-Dichloropropene 56 1,2,3-Trichlorobenzene 87 1,2,3-Trichloropropane 96 1,2,4-Trimethylbenzene 12 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 76 1,3-5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 99 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzohloromethane 10 Bromodichloromethane 76 Bromodichlorome	76-13-1 75-34-3 63-58-6 37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 5 0.04 5 	 7	 < 0.5 	 < 0.5 				< 0.2	< 0.2	< 1.0	< 1.0	< 1 < 1	< 0.500
1,1-Dichloroethane 75 1,1-Dichloropropene 56 1,2,3-Trichlorobenzene 87 1,2,3-Trichloropropane 96 1,2,4-Trichlorobenzene 12 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloropropane 78 1,3-5-Trimethylbenzene 10 1,3-Dichloropropane 14 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	75-34-3 63-58-6 37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 0.04 5 	 7 	< 0.5 	< 0.5				< 0.2		< 1.0	< 1.0	<1	< 0.500
1,1-Dichloropropene 56 1,2,3-Trichlorobenzene 87 1,2,3-Trichloropropane 96 1,2,4-Trimethylbenzene 12 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3-5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzene 71 Bromobenzene 10 Bromodichloromethane 74 Bromodichloromethane 75	63-58-6 37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	 0.04 5 	7	 		< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	<1	< 0.500
1,2,3-Trichlorobenzene 87 1,2,3-Trichloropropane 96 1,2,4-Trimethylbenzene 12 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethane 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 74	37-61-6 96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	 0.04 5 	7	 			< 0.5 		< 0.2				<1	< 0.500
1,2,3-Trichloropropane 96 1,2,4-Trichlorobenzene 12 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 14 1,4-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 74	96-18-4 20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	0.04 5 									< 1.0	< 1.0	<1	< 0.500
1,2,4-Trichlorobenzene 12 1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloropropane 78 1,3-Dichloropropane 10 1,3-Dichlorobenzene 10 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	20-82-1 95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8	5 											< 2.5	< 2.50
1,2,4-Trimethylbenzene 95 1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	95-63-6 96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8			< 0.6	< 0.5	< 0.5	< 0.5	 < 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 2.5	< 1.00
1,2-Dibromo-3-chloropropane (DBCP) 96 1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	96-12-8 06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8						< 0.5					< 1.0		
1,2-Dibromoethane 10 1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	06-93-4 95-50-1 07-06-2 40-59-0 78-87-5 08-67-8												< 1	< 0.500
1,2-Dichlorobenzene (o-Dichlorobenzene) 95 1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	95-50-1 07-06-2 40-59-0 78-87-5 08-67-8		0.00033 0.0075				 				< 1.0	< 1.0 < 1.0	< 5	< 0.00500 < 0.500
1,2-Dichloroethane 10 1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	07-06-2 40-59-0 78-87-5 08-67-8	3									< 1.0		< 1	
1,2-Dichloroethene 54 1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 95 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	40-59-0 78-87-5 08-67-8			< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,2-Dichloropropane 78 1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	78-87-5 08-67-8	0.6		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.3	< 1.0	< 1.0	< 1	< 0.500
1,3,5-Trimethylbenzene 10 1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	08-67-8	5 1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2				0.500
1,3-Dichlorobenzene 54 1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 95 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75		•	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
1,3-Dichloropropane 14 1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 95 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	44 72 4												< 1	< 0.500
1,4-Dichlorobenzene 10 2-Butanone (Methyl ethyl ketone) 78 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 95 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	41-73-1	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 2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 95 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	42-28-9 06-46-7		-										< 1	< 1.00
2-Chloroethyl vinyl ether 11 2-Hexanone 59 4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75		3 50		< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
2-Hexanone 59 4-Isopropyltoluene 95 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	78-93-3		-								< 5.0	< 5.0	< 10	< 5.00
4-Isopropyltoluene 99 4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	10-75-8	 E0		< 2	< 2	< 2	< 2	< 2	< 0.2	< 0.2	 - F O	 - F O		< 50.0
4-Methyl-2-pentanone 10 Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	91-78-6 99-87-6	50									< 5.0	< 5.0		< 5.00
Acetone 67 Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	08-10-1		6300								< 5.0	 < 5.0	< 1 < 10	< 0.500 < 5.00
Acrylonitrile 10 Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	67-64-1	50								<u>-</u>		< 5.0	< 50	< 25.0
Benzene 71 Benzidine 92 Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	07-04-1										< 5.0	< 5.0	< 10	< 5.00
Benzidine 92 Bromobenzene 100 Bromochloromethane 74 Bromodichloromethane 75	71-43-2	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 10	< 0.500
Bromobenzene 10 Bromochloromethane 74 Bromodichloromethane 75	92-87-5				< 0.5	< 0.5 			< 0.2				< 10	
Bromochloromethane 74 Bromodichloromethane 75	08-86-1												< 10	< 0.500
Bromodichloromethane 75	74-97-5		83								< 1.0	< 1.0		< 0.500
	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	75-27-4	50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0		< 0.500
	74-83-9	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1 < 5	< 0.500
` ,	75-15-0	60		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.3	< 1.0	< 1.0	< 5 	< 0.500
	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
	08-90-7	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
	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
	67-66-3	5 7		< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 5 < 5	< 0.500
	74-87-3	5		< 0.5	< 0.5	< 0.5	< 0.5		< 0.2	< 0.2	< 1.0	< 1.0	< 2.5	< 1.25
	56-59-2	5 5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0 < 1.0	< 1.0 < 1.0	< 2.5 < 1	< 1.25 < 0.500
	061-01-5	0.4		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
·	10-82-7	U.4 	13000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0		< 0.500
	24-48-1	50	13000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0 < 1.0	< 1.0 < 1.0	 < 1	< 0.500
	74-95-3			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 1.0	< 1.0	< 1	< 0.500
,	75-71-8		200								< 1.0	< 1.0	< 5	< 2.50
,	08-20-3	 5	1500										< 1	< 0.500
·	00-41-4	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 0.4	< 1.0	< 1.0	< 1	< 0.500
	37-92-3 40.54.2													 - F 00
	10-54-3 98-82-8		450											< 5.00
Isopropylbenzene 98 m,p-Xylenes XYLE	4X-X /-X		450 								< 1.0 < 1.0	< 1.0 < 1.0	< 1	< 0.500



Location ID		NIVO TO CO	USEPA	OR-3	OR-3	OR-3	OR-3	OR-3						
Sample Date	Doromotor Code	NYS TOGS	Tapwater RSL	6/14/2016	6/14/2016	6/28/2017	11/1/2017	6/14/2018	11/5/2018	11/5/2018	6/21/2019	10/30/2019	4/23/2020	10/13/2020
Sample Purpose Parameter Name	Parameter Code	GWQS	2019	FD	REG	REG	REG	REG	FD	REG	REG	REG	REG	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 t-Butylbenzene	100-42-5 98-06-6	5									< 1.0	< 1.0	< 1	< 0.500
•													< 1	< 0.500
tert-Amyl methyl ether	994-05-8													
Terriary 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	<u>-</u>												< 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					<u>'</u>	1		<u> </u>				1		
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



Location ID		NVC TOCO	USEPA	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3	OR-3
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	6/14/2016	6/14/2016	6/28/2017	11/1/2017	6/14/2018	11/5/2018	11/5/2018	6/21/2019	10/30/2019	4/23/2020	10/13/2020
Sample Purpose	Parameter Code	GWQS	2019	FD	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG
Parameter Name														
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	-											
Caumum	1440-43-9	o o			-								-	



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												

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		NYS TOGS	USEPA	OR-3	OR-3	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2
Sample Date	Parameter Code	GWQS	Tapwater RSL	4/27/2021	10/7/2021	8/21/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010	10/12/2010
Sample Purpose	Tarameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name														<u> </u>
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-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) 1,1-Dichloroethane	76-13-1	5	-	< 0.500	< 0.500									
	75-34-3	5		< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene 1,2,3-Trichlorobenzene	563-58-6	-	7	< 0.500	< 0.500									
	87-61-6		-	< 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) 1,2-Dibromoethane	96-12-8		0.00033	< 0.00500	< 0.00500									
	106-93-4 95-50-1		0.0075	< 0.500	< 0.500	 - 1								
1,2-Dichlorobenzene (o-Dichlorobenzene) 1,2-Dichloroethane		3		< 0.500	< 0.500	< 1	< 1	< 1 < 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane 1,2-Dichloroethene	107-06-2 540-59-0	0.6 5		< 0.500	< 0.500	< 1	< 1 < 0.8		< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene 1,2-Dichloropropane	78-87-5	5 1		< 0.500	< 0.500	< 0.8	< 0.8 < 1	< 0.8	< 0.8	< 0.8	< 0.8 < 1	< 0.8		< 0.8 < 1
1,3,5-Trimethylbenzene	108-67-8	-				< 1			< 1	< 1		< 1	< 1	
1,3-Dichlorobenzene	541-73-1	3	-	< 0.500	< 0.500									
1,3-Dichloropropane	142-28-9	5		< 0.500 < 1.00	< 0.500 < 1.00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	106-46-7	3		< 0.500	< 0.500		 < 1							
2-Butanone (Methyl ethyl ketone)	78-93-3	50		< 5.00	< 0.500	< 1	< 1 	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloroethyl vinyl ether	110-75-8			< 50.0	< 50.0		< 2		< 2					
2-Hexanone	591-78-6	50		< 5.00	< 50.0	< 2		< 2		< 2	< 2	< 2	< 2	< 2
4-Isopropyltoluene	99-87-6			0.535	< 0.500									
4-Nethyl-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			< 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					< 0.5 							< 0.5 	
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	75-27-4	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	
Carbon disulfide	75-15-0	60		< 0.500	< 2.50 0.110 J	< 1 	< 1	< 1		< 1		< 1		< 1
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	< 0.500	< 0.6	< 0.6	< 0.6	< 1	< 1	< 0.6	< 0.6	< 0.6	< 0.8
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	< 0.500	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
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	< 0.500	< 0.500									
Dibromochloromethane	124-48-1	50	13000	< 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	 								
Disopropyl ether	108-20-3	-	1500	< 0.500	< 0.500									
Diisopropyi etner Ethylbenzene	108-20-3	5	1500	< 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			< 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 Hexane	110-54-3			< 5.00	< 5.00									
			450											
Isopropylbenzene	98-82-8		450	< 0.500	< 0.500									



Location ID		NVC TOOS	USEPA	OR-3	OR-3	OS-2								
Sample Date	Parameter Code	NYS TOGS	Tapwater RSL	4/27/2021	10/7/2021	8/21/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010	10/12/2010
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name														
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	101-33-3	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
	106-44-5			< 10.0			< 2	< 2	< 2			< 2		
		ı				< 2	< 4	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Methylphenol (p-Cresol)		F		- E 00	- E 00	. 1	1	. 1	. 4	_ 1	. 1	. 1	. 1	
	100-01-6 100-02-7	5 1		< 5.00 < 10.0	< 5.00 < 10.0	< 1 < 10								



Location ID		NIVE TOO	USEPA	OR-3	OR-3	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	4/27/2021	10/7/2021	8/21/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009	11/11/2009	5/26/2010	10/12/2010	10/12/2010
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name														
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	7440-39-3	1,000												
	7440-41-7													
Beryllium (Dissolved)	/ 44U-41-/	3												



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												
		-												

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		NYS TOGS	USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2
Sample Date	Parameter Code	GWQS	Tapwater RSL	5/11/2011	11/10/2011	7/18/2012	7/18/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014	11/11/2014	6/19/2015	11/13/2015
Sample Purpose	Tarameter Code	GWQS	2019	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	FD
Parameter Name														
Volatile Organic Compounds	75.05.4	_		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	2.5	0.5
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													



Location ID			USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2
Sample Date		NYS TOGS	Tapwater RSL	5/11/2011	11/10/2011	7/18/2012	7/18/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014	11/11/2014	6/19/2015	11/13/2015
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	FD	REG	REG	REG	REG	REG	REG	0/19/2013 REG	FD
Parameter Name			20.0	REG	REG	1	REG	REG	REG	REG	REG	REG	REG	70
ethyl acetate	79-20-9		20000											
ethylcyclohexane	108-87-2													
lethylene 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
-Butylbenzene	104-51-8													
I-Nitrosodimethylamine	62-75-9		-											
-Propylbenzene	103-65-1													
-Chlorotoluene	95-49-8													
-Xylene	95-47-6		190											
-Chlorotoluene	106-43-4													
ec-Butylbenzene	135-98-8													
	594-20-7		-											
ec-Dichloropropane														
tyrene Butulbanzana	100-42-5	5												
Butylbenzene	98-06-6													
ert-Amyl methyl ether	994-05-8		-											
Fertiary Butyl Alcohol	75-65-0	<u></u>												
etrachloroethene	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
oluene	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
rans-1,2-Dichloroethene	156-60-5	5												
rans-1,3-Dichloropropene	10061-02-6	0.4		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
rans-1,4-Dichloro-2-Butene	110-57-6													
richloroethene (Trichloroethylene)	79-01-6	5		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
richlorofluoromethane (Freon 11)	75-69-4	5		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.5	< 0.5	< 0.5	< 0.5
inyl Acetate	108-05-4													
'inyl chloride (Chloroethene)	75-01-4	2		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
(ylene (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														
,2,4,5-Tetrachlorobenzene	95-94-3		1.7											
,4-Dioxane	123-91-1		0.46											
,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
,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
,4-Dinitrophenol	51-28-5	10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 11	< 10
,4-Dinitrotoluene	121-14-2	5		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
,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
-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
-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
-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
-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
-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
-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
& 4-Methylphenol	65794-96-9													
,3'-Dichlorobenzidine	91-94-1	5		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
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
6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	1		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5
Bromophenylphenylether	101-55-3	<u></u>		< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
-Chloroaniline	106-47-8	5		< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 2
-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
-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
-Nitroaniline	100-44-5	5		< 2 < 1	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5
-Nitrophenol	100-01-6				< 10	< 0.5 < 10	< 0.5			< 10				< 0.5 < 10
	100-02-7	1		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 11	< 10



Location ID			USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2
Sample Date		NYS TOGS	Tapwater RSL	5/11/2011	11/10/2011	7/18/2012	7/18/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014	11/11/2014	6/19/2015	11/13/2015
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	FD
Parameter Name							0	0		0	0	0		
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 Pentachlorophenol	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
·	87-86-5	1 50		< 3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene Phenol	85-01-8 108-95-2	50		< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	129-00-0	1 50		< 1 < 1	< 0.5	< 0.5 < 0.1	< 0.5	< 0.5	< 0.6 < 0.1	< 0.5				
Metals	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
Aluminum	7429-90-5	100												
Aluminum (Dissolved)	7429-90-5	100												
Antimony	7440-36-0	3		<u></u>										
Antimony Antimony (Dissolved)	7440-36-0	3												
Arsenic	7440-38-2	3 25											 	
Arsenic (Dissolved)	7440-38-2	25 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												
Gaarman	1 440-43-3	J												



Location ID		NYS TOGS	USEPA Tapwater RSL	OS-2 5/11/2011	OS-2 11/10/2011	OS-2 7/18/2012	OS-2 7/18/2012	OS-2 10/23/2012	OS-2 6/11/2013	OS-2 11/14/2013	OS-2 6/11/2014	OS-2 11/11/2014	OS-2 6/19/2015	OS-2 11/13/2015
Sample Date	Parameter Code	GWQS	2019											
Sample Purpose			2019	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG	FD
Parameter Name Cadmium (Dissolved)	7440-43-9	5												
Calcium	7440-43-9													
Calcium (Dissolved)	7440-70-2													
Chromium	7440-70-2	 50												
Chromium (Dissolved)	7440-47-3	50 50												
Cobalt	7440-48-4	5 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												
	. 100 01 0													

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		NVS TOCS	USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	11/13/2015	6/14/2016	11/15/2016	6/27/2017	11/1/2017	11/1/2017	6/13/2018	11/1/2018	6/21/2019	10/30/2019	4/23/2020
Sample Purpose	rarameter code	GWQS	2019	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	FD
Parameter Name														
/olatile Organic Compounds														
,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
,1,1,2-Tetrachloroethane	630-20-6	<u></u>												< 1
I,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
I,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	<u>-</u>												< 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
Chloreform	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	40000	< 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													
sopropylbenzene	98-82-8		450									< 1.0	< 1.0	< 1
m,p-Xylenes	XYLENES-MP											< 1.0	< 1.0	



Location ID			USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2
Sample Date		NYS TOGS	Tapwater RSL	11/13/2015	6/14/2016	11/15/2016	6/27/2017	11/1/2017	11/1/2017	6/13/2018	11/1/2018	6/21/2019	10/30/2019	4/23/2020
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	FD
Parameter Name					20	N20				20		20		
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



Logation ID			иотра	OS-2	00.2	OS-2	00.2	OS-2	00.2	OS-2	00.2	OS-2	00.2	OS-2
Location ID Sample Date		NYS TOGS	USEPA Tapwater RSL	11/13/2015	OS-2 6/14/2016	11/15/2016	OS-2 6/27/2017	11/1/2017	OS-2 11/1/2017	6/13/2018	OS-2 11/1/2018	6/21/2019	OS-2 10/30/2019	4/23/2020
Sample Purpose	Parameter Code	GWQS	2019	REG	0/14/2010 REG	REG	REG	FD	REG	0/13/2018 REG	REG	0/21/2019 REG	REG	4/23/2020 FD
Parameter Name				KLG	KLG	KLG	KLG	10	KLG	KLG	KLG	KLG	KLG	10
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 87-86-5	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10
Pentachlorophenol Phenanthrene	85-01-8	50		< 1 < 0.1	< 1	< 1	< 1	< 1 < 0.1	< 1	< 1	< 1 < 0.1	< 20 < 10	< 20 < 10	< 10
		1			< 0.1	< 0.1	< 0.1		< 0.1	< 0.1				< 1
Phenol Pyrene	108-95-2 129-00-0	50		< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1	< 10 < 10	< 10 < 10	< 10 < 1
Metals	129-00-0	30		< 0.1	₹ 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 10	< 10	< 1
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	7440-41-7	5												
Cuantium	1 440-43-3	J												



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												
/anadium	7440-62-2		86											
/anadium (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												

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		NYS TOGS	USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date	Parameter Code	GWQS	Tapwater RSL	4/23/2020	10/12/2020	10/12/2020	4/26/2021	4/26/2021	10/7/2021	8/21/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009
Sample Purpose Parameter Name		5.1.25	2019	REG	FD	REG	FD	REG	REG	REG	REG	REG	REG	REG
olatile Organic Compounds														
,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
,1,1,2-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					
sopropylbenzene	98-82-8		450	< 1	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500					
n,p-Xylenes	XYLENES-MP													



Location ID			USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date		NYS TOGS	Tapwater RSL	4/23/2020	10/12/2020	10/12/2020	4/26/2021	4/26/2021	10/7/2021	8/21/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	FD	REG	REG	REG	REG	REG	REG	REG
Parameter Name				NEO .		1120		INEO	NEO .	INEO	I.LO	ILEO	INEO	, neo
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	<u></u>	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	3 1		< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5	< 5	< 5	< 5	< 5
4-Bromophenylphenylether	101-55-3	<u>-</u>		< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 0.9
4-Chloroaniline	106-47-8	5		< 10 	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 0.9
4-Chlorophenyl phenyl ether	7005-72-3				< 10.0						< 2			
4-Chlorophenyl phenyl ether 4-Methylphenol (p-Cresol)	106-44-5			< 10		< 10.0	< 10.0	< 10.0	< 10.0	< 2		< 2	< 2	< 2
4-INICHINIDHEHUI (D-CIESUH)		1								< 2	< 2 < 1	< 2	< 2	< 2 < 0.9
	100 04 6													
4-Nitrophenol	100-01-6 100-02-7	5 1		< 10	< 5.00 < 10.0	< 1 < 10	< 10	< 1 < 10	< 1 < 10	< 9				



Location ID		NIVO TO CO	USEPA	OS-2	OS-2	OS-2	OS-2	OS-2	OS-2	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date	Davamatar Cada	NYS TOGS	Tapwater RSL	4/23/2020	10/12/2020	10/12/2020	4/26/2021	4/26/2021	10/7/2021	8/21/2007	11/29/2007	6/12/2008	11/20/2008	7/15/2009
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	FD	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
cenaphthylene	208-96-8			< 1	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 0.9
cetophenone	98-86-2		1900		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0					
nthracene	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
ois(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
ois(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												

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		NYS TOGS	USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date	Parameter Code	GWQS	Tapwater RSL	11/11/2009	5/26/2010	5/26/2010	10/12/2010	5/11/2011	11/10/2011	7/18/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014
Sample Purpose		01140	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														1
olatile Organic Compounds 1 Dichloroethene	75-35-4	-		. 0.0	. 0.0	.00	. 0.0	.00	.00	.00	. 0. 0	. 0.0	. 0. 0	.05
1,1,1,2-Tetrachloroethane	630-20-6	5		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5
		<u></u>												
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
1,1,2,2-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	<u>-</u>												
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	< 0.5
	74-83-9			< 1										
Bromomethane (Methyl bromide) Carbon disulfide	75-15-0	5		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
Carbon disuitide Carbon Tetrachloride	75-15-0 56-23-5	60 5												
Carbon Letrachioride Chlorobenzene		•		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5
	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
Chloroform	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													
sopropylbenzene	98-82-8		450											
n,p-Xylenes	XYLENES-MP													



Location ID			USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date		NYS TOGS	Tapwater RSL	11/11/2009	5/26/2010	5/26/2010	10/12/2010	5/11/2011	11/10/2011	7/18/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name										0		0	0	
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	100-44-5	5		< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 11	< 11
4-Nitrophenol	100-02-7	1					2 111							



Location ID		NIVO-TO-CO	USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date	Borometer Code	NYS TOGS	Tapwater RSL	11/11/2009	5/26/2010	5/26/2010	10/12/2010	5/11/2011	11/10/2011	7/18/2012	10/23/2012	6/11/2013	11/14/2013	6/11/2014
Sample Purpose Parameter Name	Parameter Code	GWQS	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
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	<u></u>	< 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	< 0.1	< 0.5	< 0.5	< 0.6	< 0.5	< 0.5
Diethylphthalate	53-70-3	50	0.025		< 2						< 2			
Dimethyl phthalate	132-64-9	50		< 2		< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2
	84-66-2		7.9	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-butylphthalate		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												
	7440-41-7													
Beryllium (Dissolved)	/ 440-4 1-/	3												



Location ID Sample Date		NYS TOGS	USEPA Tapwater RSL	OS-3 11/11/2009	OS-3 5/26/2010	OS-3 5/26/2010	OS-3 10/12/2010	OS-3 5/11/2011	OS-3 11/10/2011	OS-3 7/18/2012	OS-3 10/23/2012	OS-3 6/11/2013	OS-3 11/14/2013	OS-3 6/11/2014
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
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												

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		NYS TOGS	USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date	Parameter Code	GWQS	Tapwater RSL	11/11/2014	6/19/2015	6/19/2015	11/16/2015	6/14/2016	11/16/2016	6/28/2017	11/1/2017	6/14/2018	11/1/2018	6/21/2019
Sample Purpose			2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
olatile Organic Compounds 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
,1,1,2-Tetrachloroethane	630-20-6			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
,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
1,2,2-Tetrachloroethane	79-34-5	5		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.3	< 1.0 < 1.0
,1,2-Tetracriloroethane	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
,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5												< 1.0
,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-Dichloropropene	563-58-6				< 0.5	< 0.5 			< 0.5					< 1.0
,2,3-Trichlorobenzene	87-61-6		7											< 1.0
,2,3-Trichloroperizerie	96-18-4													
,2,4-Trichlorobenzene	120-82-1	0.04 5		< 0.5	 < 0.5	< 0.5	< 0.5	 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0
,2,4-Trichlorobertzerie	95-63-6													
,2,4-1 rimethylbenzene ,2-Dibromo-3-chloropropane (DBCP)	95-63-6		0.00033											< 1.0
,2-Dibromo-3-chioropropane (DBCP)	106-93-4		0.00033			 								< 1.0 < 1.0
,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3	0.0075	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
.2-Dichlorobenzene (o-Dichlorobenzene)	107-06-2	0.6		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.2	< 1.0 < 1.0
,2-Dichloroethane	540-59-0	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 1.0
,2-Dichloropropane	78-87-5	5 1		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.2	< 1.0
,3,5-Trimethylbenzene	108-67-8			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
,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
,3-Dichloropropane	142-28-9	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
,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
-A-Dichiorobenzene 2-Butanone (Methyl ethyl ketone)	78-93-3	50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0 < 5.0
e-Chloroethyl vinyl ether	110-75-8			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 0.2	< 5.0
!-Hexanone	591-78-6	50			< 2	< Z 	< 2	< 2	< 2	< 2	< Z 	< 2	< 0.2	< 5.0
-Isopropyltoluene	99-87-6													
Isopropyitoluene Methyl-2-pentanone	108-10-1		6300			 								< 5.0
cetone	67-64-1	50												< 5.0 < 5.0
crylonitrile	107-13-1													< 5.0
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	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Bromobenzene	108-86-1													
Bromochloromethane	74-97-5		83											< 1.0
Bromodichloromethane	74-97-5 75-27-4	50	83	< 0.5	< 0.5	< 0.5	< 0.5	 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0 < 1.0
Bromoform	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
Bromomethane (Methyl bromide)	74-83-9	5 5												< 1.0
Carbon disulfide	74-83-9 75-15-0	60		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 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	< 0.5	< 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	
Chloroform	67-66-3	7		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 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	< 0.5	< 0.2	< 1.0
is-1,2-Dichloroethene	156-59-2	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
is-1,3-Dichloropropene	10061-01-5	0.4					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.2	< 1.0
cyclohexane	110-82-7	U.4 	13000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
Dibromochloromethane	124-48-1	50	13000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1.0
bibromocnioromethane (Methylene bromide)	74-95-3			< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.2	< 1.0
ichlorodifluoromethane (Freon 12)	74-95-3 75-71-8	 	200											< 1.0
, ,	108-20-3		1500											
hiisopropyl ether														
thylbenzene	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
thyl-t-butylether	637-92-3													
lexane	110-54-3		450											
sopropylbenzene	98-82-8	-	450											< 1.0



Location ID		NIVO TO CO	USEPA	OS-3	OS-3									
Sample Date	Doromotor Cod	NYS TOGS	Tapwater RSL	11/11/2014	6/19/2015	6/19/2015	11/16/2015	6/14/2016	11/16/2016	6/28/2017	11/1/2017	6/14/2018	11/1/2018	6/21/2019
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	REG							
Parameter Name														
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
flethyl-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
o-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	<u>3</u>		< 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	< 0.5	< 2	< 0.5	< 2	< 2	< 2	< 4	< 4	< 10
4-Chlorophenyl phenyl ether	7005-72-3			< 0.5				< 0.5				< 0.5	< 0.5	
	106-44-5	<u></u>			< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		1	< 10
4-Methylphenol (p-Cresol)		1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10
4-Nitroaniline	100-01-6 100-02-7	5 1		< 0.5 < 10	< 0.5 < 10	< 0.5 < 10	< 0.5 < 10	< 0.5 < 11	< 0.5 < 10	< 0.5 < 10	< 0.5 < 11	< 0.9 < 10	< 0.9 < 10	< 10 < 20
4-Nitrophenol														



Location ID Sample Date		NYS TOGS	USEPA Tapwater RSL	OS-3 11/11/2014	OS-3 6/19/2015	OS-3 6/19/2015	OS-3 11/16/2015	OS-3 6/14/2016	OS-3 11/16/2016	OS-3 6/28/2017	OS-3 11/1/2017	OS-3 6/14/2018	OS-3 11/1/2018	OS-3 6/21/2019
Sample Purpose	Parameter Code	GWQS	2019	REG	FD	REG	REG	8/14/2016 REG	REG	8/26/2017 REG	REG	8/14/2018 REG	REG	6/21/2019 REG
Parameter Name 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	0.002	0.025	< 0.1	< 0.1	0.1 J	< 0.1	1	< 0.1	< 0.1	0.1 J	< 0.1	< 0.1	< 1.0
Benzo(b)fluoranthene	205-99-2	0.002		< 0.1	0.1 J	0.2 J 0.3 J	< 0.1	2	< 0.1	< 0.1	0.2 J	< 0.1	< 0.1	< 2.0
	191-24-2							1						
Benzo(g,h,i)perylene				< 0.1	< 0.1	0.2 J	< 0.1	·	< 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	< 1.0
Hexachlorobutadiene							< 0.1							
	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 (Disselved)	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		NVC TOOS	USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3	OS-3
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	11/11/2014	6/19/2015	6/19/2015	11/16/2015	6/14/2016	11/16/2016	6/28/2017	11/1/2017	6/14/2018	11/1/2018	6/21/2019
Sample Purpose	rarameter code	GWQS	2019	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
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												

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		NVS TOCS	USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	10/30/2019	4/23/2020	10/13/2020	4/27/2021	10/7/2021	8/22/2007	11/28/2007	6/10/2008	11/18/2008	7/14/2009	11/10/2009
Sample Purpose	r arameter code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
olatile Organic Compounds											1	<u> </u>		
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
,1,1,2-Tetrachloroethane	630-20-6				< 1	< 0.500	< 0.500	< 0.500						
,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
,1,2,2-Tetrachloroethane	79-34-5	5		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 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
,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5		< 1.0	< 1	< 0.500	< 0.500	< 0.500						
,1-Dichloroethane	75-34-3	5		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
,1-Dichloropropene	563-58-6				< 1	< 0.500	< 0.500	< 0.500						
,2,3-Trichlorobenzene	87-61-6		7	< 1.0	< 1	< 0.500	< 0.500	< 0.500						
,2,3-Trichloropropane	96-18-4	0.04			< 2.5	< 2.50	< 2.50	< 2.50						
,2,4-Trichlorobenzene	120-82-1	5		< 1.0	< 1	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
,2,4-Trimethylbenzene	95-63-6				< 1	< 0.500	< 0.500	< 0.500						
,2-Dibromo-3-chloropropane (DBCP)	96-12-8		0.00033	< 1.0	< 5	< 0.00500	< 0.00500	< 0.00500						
,2-Dibromoethane	106-93-4		0.0075	< 1.0	< 1	< 0.500	< 0.500	< 0.500						
,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 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
,2-Dichloroethene	540-59-0	5							< 0.8	7	5 J	4 J	6	5 J
,2-Dichloropropane	78-87-5	1		< 1.0	< 1	< 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						
,3-Dichlorobenzene	541-73-1	3		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
,3-Dichloropropane	142-28-9	5			< 1	< 1.00	< 1.00	< 1.00						
,4-Dichlorobenzene	106-46-7	3		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
-Butanone (Methyl ethyl ketone)	78-93-3	50		< 5.0	< 10	< 5.00	< 5.00	< 5.00						
-Chloroethyl vinyl ether	110-75-8					< 50.0	< 50.0	< 50.0	< 2	< 2	< 2	< 2	< 2	< 2
-Hexanone	591-78-6	50		< 5.0		< 5.00	< 5.00	< 5.00						
-Isopropyltoluene	99-87-6				< 1	< 0.500	< 0.500	< 0.500						
-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					< 0.500	< 0.500	< 0.500						
		-			< 1									
Bromochloromethane Bromodichloromethane	74-97-5		83	< 1.0		< 0.500	< 0.500	< 0.500						
	75-27-4 75-25-2	50	-	< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform		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
is-1,2-Dichloroethene	156-59-2	5		< 1.0	< 1	< 0.500	< 0.500	< 0.500						
s-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										
ibromochloromethane	124-48-1	50		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
ibromomethane (Methylene bromide)	74-95-3	-	-		< 1	< 0.500	< 0.500	< 0.500						
ichlorodifluoromethane (Freon 12)	75-71-8		200	< 1.0	< 5	< 2.50	< 2.50	< 2.50						
iisopropyl ether	108-20-3		1500		< 1	< 0.500	< 0.500	< 0.500						
thylbenzene	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
thyl-t-butylether	637-92-3													
lexane	110-54-3					< 5.00	< 5.00	< 5.00						
sopropylbenzene	98-82-8		450	< 1.0	< 1	< 0.500	< 0.500	< 0.500						
n,p-Xylenes	XYLENES-MP			< 1.0										



	NIVO TORR	USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1
			10/30/2019	4/23/2020	10/13/2020	4/27/2021	10/7/2021	8/22/2007	11/28/2007	6/10/2008	11/18/2008	7/14/2009	11/10/2009
Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
70.20.0		20000	. 5.0										
					-								
									+				< 2
													< 0.5
					-								
	5		< 1.0	< 1									
				< 1	< 0.500	< 0.500							
994-05-8													
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
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
156-60-5	5		< 1.0	< 1	< 0.500	< 0.500	< 0.500						
10061-02-6	0.4		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
110-57-6					< 5.00	< 5.00	< 5.00						
79-01-6	5		< 1.0	< 1	< 0.500	< 0.500	< 0.500	9	11	10	4 J	10	9
75-69-4	5		< 1.0	< 5	< 2.50	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2
108-05-4					< 5.00	< 5.00	< 5.00						
75-01-4	2		< 1.0	< 1	< 0.500	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
1330-20-7	5			< 3	< 1.50	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
95-94-3		1.7	< 10		< 10.0	< 10.0	< 10.0						
123-91-1		0.46	< 50										
58-90-2		240	< 10										
95-95-4	1		< 10		< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
88-06-2	1		< 10	< 10	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
120-83-2	5		< 10	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
105-67-9	50		< 10	< 10	< 10.0	< 10.0	< 10.0	< 3	< 3	< 3	< 3	< 3	< 3
51-28-5	10		< 20	< 10	< 10.0	< 10.0	< 10.0	< 22	< 22	< 19	< 19	< 19	< 22
121-14-2	5		< 2.0	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
606-20-2	5		< 2.0	< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
91-58-7	10		< 10	< 1	< 0.250	< 0.250	< 0.250	< 2	< 2	< 2	< 2	< 2	< 2
95-57-8	1		< 10	< 10	< 1.00	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
91-57-6		36	< 10				< 0.250	< 1	< 1	< 1	< 1	< 1	< 1
95-48-7	1		< 10			< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
88-74-4	5		< 10		< 5.00	< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
88-75-5	1		< 10	< 10	< 1.00	< 1.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
65794-96-9						< 1.00	< 1.00						
	5											< 2	< 2
													< 1
	1												< 5
													< 1
													<1
													< 2
	1												< 2
100-01-6 100-02-7	5 1		< 10 < 20	 < 10	< 5.00 < 10.0	< 5.00 < 10.0	< 5.00 < 10.0	< 1	< 1 < 11	< 1 < 10	< 1 < 10	< 1 < 10	< 1 < 11
	75-65-0 127-18-4 108-88-3 156-60-5 10061-02-6 110-57-6 79-01-6 75-69-4 108-05-4 75-01-4 1330-20-7 95-94-3 123-91-1 58-90-2 95-95-4 88-06-2 120-83-2 105-67-9 51-28-5 121-14-2 606-20-2 91-58-7 95-57-8 91-57-6 95-48-7 88-74-4 88-75-5 65794-96-9 91-94-1 99-09-2 534-52-1 101-55-3 106-44-5 100-01-6	79-20-9 108-87-2 75-09-2 5 1634-04-4 10 104-51-8 62-75-9 103-65-1 95-49-8 95-47-6 106-43-4 135-98-8 594-20-7 100-42-5 5 98-06-6 994-05-8 75-65-0 127-18-4 5 108-88-3 5 156-60-5 5 10061-02-6 0.4 110-57-6 79-01-6 5 75-69-4 5 108-05-4 75-01-4 2 1330-20-7 5 95-94-3 123-91-1 58-90-2 95-95-4 1 88-06-2 1 120-83-2 5 105-67-9 50 51-28-5 10 121-14-2 5 606-20-2 5 91-58-7 10 95-57-8 1 91-57-6 95-48-7 1 88-74-4 5 88-75-5 1 65794-96-9 91-94-1 5 99-09-2 5 534-52-1 1 101-55-3 106-47-8 5 7005-72-3 106-44-5 1 100-01-6 5	Parameter Code NYS TOGS GWQS Tapwater RSL 2019 79-20-9 20000 108-87-2 75-09-2 5 104-51-8 62-75-9 103-65-1 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-49-8 95-47-6 190 106-43-4 100-42-5 5 98-06-6 108-83-3 5 <td> Parameter Code</td> <td> Parameter Code</td> <td> Parameter Code</td> <td>Parameter Code WS TOWS GWGS Tapwaster RSL 2019 REG REG REG REG REG REG REG RE</td> <td>Parameter Code Was 79-20-9 </td> <td>Parameter Code Parameter Code Param</td> <td> Parameter Cook</td> <td> NS 1009</td> <td> Parameter Code WYS 1000 Taylories Figure 100 Taylor Micro RED RE</td> <td> Part Part </td>	Parameter Code	Parameter Code	Parameter Code	Parameter Code WS TOWS GWGS Tapwaster RSL 2019 REG REG REG REG REG REG REG RE	Parameter Code Was 79-20-9	Parameter Code Parameter Code Param	Parameter Cook	NS 1009	Parameter Code WYS 1000 Taylories Figure 100 Taylor Micro RED RE	Part Part



Location ID		NVS TOCS	USEPA	OS-3	OS-3	OS-3	OS-3	OS-3	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	10/30/2019	4/23/2020	10/13/2020	4/27/2021	10/7/2021	8/22/2007	11/28/2007	6/10/2008	11/18/2008	7/14/2009	11/10/2009
Sample Purpose	rarameter code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name 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	0.03	< 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	0.04		< 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
	193-39-5													
Indeno(1,2,3-cd)Pyrene	78-59-1	0.002		< 2.0	< 1	< 0.0500	< 0.0500	< 0.0500	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone		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						l l		l l						
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	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL	OS-3 10/30/2019	OS-3 4/23/2020	OS-3 10/13/2020	OS-3 4/27/2021	OS-3 10/7/2021	DC-1 8/22/2007	DC-1 11/28/2007	DC-1 6/10/2008	DC-1 11/18/2008	DC-1 7/14/2009	DC-1 11/10/2009
Sample Purpose			2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
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												

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		NYS TOGS	USEPA	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1
Sample Date	Parameter Code	GWQS	Tapwater RSL	5/26/2010	10/12/2010	5/11/2011	11/10/2011	10/23/2012	6/11/2013	6/11/2014	6/27/2017	10/31/2017	6/12/2018	11/2/2018
Sample Purpose	T drameter code		2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														ı
Volatile Organic Compounds	75.05.4	_								6 -				
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													



Location ID		NIVE TO SE	USEPA	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1
Sample Date	Danamatan Carta	NYS TOGS	Tapwater RSL	5/26/2010	10/12/2010	5/11/2011	11/10/2011	10/23/2012	6/11/2013	6/11/2014	6/27/2017	10/31/2017	6/12/2018	11/2/2018
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name					N.LO				0		0	20	0	0
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										
		5			< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
Toluene trans-1,2-Dichloroethene	108-88-3 156-60-5	5 5		< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2
		•												
trans-1,3-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									
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
	83-32-9	20		< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1



Location ID		NV 0 = 0 0 0	USEPA	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1
Sample Date	Doromotor Co.d	NYS TOGS	Tapwater RSL	5/26/2010	10/12/2010	5/11/2011	11/10/2011	10/23/2012	6/11/2013	6/11/2014	6/27/2017	10/31/2017	6/12/2018	11/2/2018
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
Acenaphthylene	208-96-8			< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1
cetophenone	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
ois(2-Chloroethoxy)methane	111-91-1	5		< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
ois(2-Chloroethyl) ether	111-44-4	1		< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
ois(2-chloroisopropyl) ether	108-60-1	5		< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5
pis(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
ndeno(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
sophorone	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
o-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	-=0 00 0			- 1	• • • • • • • • • • • • • • • • • • • •	- 1	- 0.1	. 0.1	10.1	. 0.1		. 0.1	. 3.1	7 0.1
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 (Disselved)	7440-41-7	3												
Beryllium (Dissolved)	7440-41-7	3												



Location ID		NYS TOGS	USEPA	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1	DC-1
Sample Date	Parameter Code	GWQS	Tapwater RSL	5/26/2010	10/12/2010	5/11/2011	11/10/2011	10/23/2012	6/11/2013	6/11/2014	6/27/2017	10/31/2017	6/12/2018	11/2/2018
Sample Purpose	Tarameter code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name														
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												
, ()	55 5. 6													

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		NVC TOOS	USEPA	DC-1	DC-1	DC-1	DC-1	DC-1	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	6/21/2019	10/31/2019	4/23/2020	4/27/2021	10/6/2021	8/21/2007	11/28/2007	6/10/2008	11/18/2008	11/18/2008	7/14/2009
Sample Purpose	Farameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG
Parameter Name														
olatile Organic Compounds														
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
1,1,2-Tetrachloroethane	630-20-6	-				< 1	< 0.500	< 0.500						
,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
,1,2,2-Tetrachloroethane	79-34-5	5		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 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
,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5		< 1.0	< 1.0	< 1	< 0.500	< 0.500						
,1-Dichloroethane	75-34-3	5		< 1.0	< 1.0	< 1	0.123 J	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
,1-Dichloropropene	563-58-6	-				< 1	< 0.500	< 0.500						
,2,3-Trichlorobenzene	87-61-6		7	< 1.0	< 1.0	< 1	< 0.500	< 0.500						
,2,3-Trichloropropane	96-18-4	0.04				< 2.5	< 2.50	< 2.50						
,2,4-Trichlorobenzene	120-82-1	5		< 1.0	< 1.0	< 1	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
,2,4-Trimethylbenzene	95-63-6	-				< 1	< 0.500	< 0.500						
,2-Dibromo-3-chloropropane (DBCP)	96-12-8	-	0.00033	< 1.0	< 1.0	< 5	< 0.00500	< 0.00500						
,2-Dibromoethane	106-93-4		0.0075	< 1.0	< 1.0	< 1	< 0.500	< 0.500						
,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	3		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 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
,2-Dichloroethene	540-59-0	5					0.500		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
,2-Dichloropropane	78-87-5	1		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
,3,5-Trimethylbenzene	108-67-8	-				< 1	< 0.500	< 0.500						
,3-Dichlorobenzene	541-73-1	3		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
,3-Dichloropropane	142-28-9	5				< 1	< 1.00	< 1.00						
,4-Dichlorobenzene	106-46-7	3		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
-Butanone (Methyl ethyl ketone)	78-93-3	50		< 5.0	< 5.0	< 10	< 5.00	< 5.00						
-Chloroethyl vinyl ether	110-75-8						< 50.0	< 50.0	< 2	< 2	< 2	< 2	< 2	< 2
-Hexanone	591-78-6	50		< 5.0	< 5.0		< 5.00	< 5.00						
-Isopropyltoluene	99-87-6					< 1	< 0.500	< 0.500						
-Methyl-2-pentanone	108-10-1		6300	< 5.0	< 5.0	< 10	< 5.00	< 5.00						
cetone	67-64-1 107-13-1	50		< 5.0	< 5.0	< 50	< 25.0	< 25.0						
Benzene						< 10	< 5.00	< 5.00						
Benzidine	71-43-2 92-87-5	1		< 1.0	< 1.0	< 1 < 10	< 0.500	< 0.500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
		-												
Bromobenzene Bromochloromethane	108-86-1 74-97-5	-				< 1	< 0.500	< 0.500						
Bromodichloromethane		50	83	< 1.0	< 1.0		< 0.500	< 0.500						
Bromoform	75-27-4 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			< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	74-83-9 75-15-0	5 60		< 1.0	< 1.0	< 5	< 2.50	< 2.50	< 1	< 1	< 1	< 1	< 1	< 1
carbon disuitide Carbon Tetrachloride	75-15-0 56-23-5	5		< 1.0 < 1.0	< 1.0 < 1.0		< 0.500 < 0.500	< 0.500 < 0.500	 < 1			< 1		< 1
Chlorobenzene	108-90-7	5		< 1.0		< 1	1	< 0.500	< 0.8	< 1	< 1	< 0.8	< 1 < 0.8	< 0.8
Chloroethane	75-00-3	5 5		< 1.0	< 1.0 < 1.0	< 1 < 5	< 0.500 < 2.50	< 0.500 < 2.50		< 0.8	< 0.8			< 0.8
Chloroform	67-66-3	7		< 1.0	< 1.0 < 1.0	< 5 < 5	1	< 2.50 0.154 J	< 1 < 0.8	< 0.8				
Chloromethane (Methyl chloride)	74-87-3	5			< 1.0	< 2.5	0.120 J < 1.25	< 1.25						-
is-1,2-Dichloroethene	156-59-2	5		< 1.0	< 1.0 1.5	< 2.5 2.53	< 1.25 2.78 J3	< 1.25 3.02	< 1	< 1	< 1	< 1	< 1	< 1
is-1,2-Dichloroethene is-1,3-Dichloropropene	156-59-2 10061-01-5			2.7										
Syclohexane	110-82-7	0.4	13000	< 1.0 < 1.0	< 1.0 < 1.0	< 1 	< 0.500	< 0.500	< 1	< 1	<1	< 1	< 1	< 1
Dibromochloromethane	124-48-1	50		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
Dibromocnioromethane Dibromomethane (Methylene bromide)	74-95-3						< 0.500	< 0.500				< 1	< 1	-
Dichlorodifluoromethane (Freon 12)	74-95-3 75-71-8		200	 -10	< 1.0	< 1		< 0.500 < 2.50						
` '	75-71-8 108-20-3			< 1.0		< 5	< 2.50							
Disopropyl ether			1500			< 1	< 0.500	< 0.500						
thylbenzene	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
thyl-t-butylether	637-92-3	-												
lexane	110-54-3		450	4.0			< 5.00	< 5.00						
sopropylbenzene	98-82-8		450	< 1.0	< 1.0	< 1	< 0.500	< 0.500						



Location ID			USEPA	DC-1	DC-1	DC-1	DC-1	DC-1	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2
Sample Date		NYS TOGS	Tapwater RSL	6/21/2019	10/31/2019	4/23/2020	4/27/2021	10/6/2021	8/21/2007	11/28/2007	6/10/2008	11/18/2008	11/18/2008	7/14/2009
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG
Parameter Name														
ethyl acetate	79-20-9		20000	< 5.0	< 5.0									
ethylcyclohexane	108-87-2			< 1.0	< 1.0									
ethylene chloride (Dichloromethane)	75-09-2	5		< 1.0	< 1.0	< 5	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2
ethyl-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
-Butylbenzene	104-51-8					< 1	< 0.500	< 0.500						
-Nitrosodimethylamine	62-75-9					< 50								
Propylbenzene	103-65-1					< 1	< 0.500	< 0.500						
-Chlorotoluene	95-49-8					< 1	< 0.500	< 0.500						
Xylene	95-47-6		190	< 1.0	< 1.0									
Chlorotoluene	106-43-4					< 1	< 0.500	< 0.500						
ec-Butylbenzene	135-98-8					< 1	< 0.500	< 0.500						
ec-Dichloropropane	594-20-7					< 1	< 0.500	< 0.500						
tyrene	100-42-5	5		< 1.0	< 1.0	< 1	< 0.500	< 0.500						
Butylbenzene	98-06-6					< 1	< 0.500	< 0.500						
rt-Amyl methyl ether	994-05-8													
ertiary Butyl Alcohol	75-65-0													
etrachloroethene	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
oluene	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
ans-1,2-Dichloroethene	156-60-5	5		< 1.0	< 1.0	< 1	< 0.500	< 0.500						
ans-1,3-Dichloropropene	10061-02-6	0.4		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
ans-1,4-Dichloro-2-Butene	110-57-6						< 5.00	< 5.00						
richloroethene (Trichloroethylene)	79-01-6	5		6.9	4.6	5.11	6.38	7.17	< 1	< 1	< 1	< 1	< 1	< 1
ichlorofluoromethane (Freon 11)	75-69-4	5		< 1.0	< 1.0	< 5	< 2.50	< 2.50	< 2	< 2	< 2	< 2	< 2	< 2
nyl Acetate	108-05-4						< 5.00	< 5.00						
nyl chloride (Chloroethene)	75-01-4	2		< 1.0	< 1.0	< 1	< 0.500	< 0.500	< 1	< 1	< 1	< 1	< 1	< 1
ylene (total)	1330-20-7	5				< 3	< 1.50	< 1.50	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
emivolatile Organic Compounds														
2,4,5-Tetrachlorobenzene	95-94-3		1.7	< 10	< 10		< 10.0	< 10.0						
4-Dioxane	123-91-1		0.46	< 50	< 50									
3,4,6-Tetrachlorophenol	58-90-2		240	< 10	< 10									
4,5-Trichlorophenol	95-95-4	1		< 10	< 10		< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
4,6-Trichlorophenol	88-06-2	1		< 10	< 10	< 10	< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
4-Dichlorophenol	120-83-2	5		< 10	< 10	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
4-Dimethylphenol	105-67-9	50		< 10	< 10	< 10	< 10.0	< 10.0	< 3	< 3	< 3	< 3	< 3	< 3
4-Dinitrophenol	51-28-5	10		< 20	< 20	< 10	< 10.0	< 10.0	< 20	< 20	< 22	< 19	< 19	< 20
,4-Dinitrotoluene	121-14-2	5		< 2.0	< 2.0	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
,6-Dinitrotoluene	606-20-2	5		< 2.0	< 2.0	< 10	< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
Chloronaphthalene	91-58-7	10		< 10	< 10	< 1	< 0.250	< 0.250	< 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
Methylnaphthalene	91-57-6		36	< 10	< 10		< 0.250	< 0.250	< 1	< 1	< 1	< 1	< 1	< 1
Methylphenol (o-Cresol)	95-48-7	1		< 10	< 10		< 1.00	< 1.00	< 1	< 1	< 1	< 1	< 1	< 1
-Nitroaniline (o-Nitroaniline)	88-74-4	5		< 10	< 10		< 5.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Nitrophenol (o-Nitrophenol)	88-75-5	1		< 10	< 10	< 10	< 1.00	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
& 4-Methylphenol	65794-96-9						< 1.00	< 1.00						
3'-Dichlorobenzidine	91-94-1	5		< 10	< 10	< 10	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
Nitroaniline	99-09-2	5		< 10	< 10		< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
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
Bromophenylphenylether	101-55-3			< 10	< 10	< 10	< 10.0	< 10.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroaniline	106-47-8	5		< 10	< 10		< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
Chlorophenyl phenyl ether	7005-72-3	-		< 10	< 10	< 10	< 10.0	< 10.0	< 2	< 2	< 2	< 2	< 2	< 2
Methylphenol (p-Cresol)	106-44-5	1		< 10	< 10				< 2	< 2	< 2	< 2	< 2	< 2
Nitroaniline	100-01-6	5		< 10	< 10		< 5.00	< 5.00	< 1	< 1	< 1	< 1	< 1	< 1
Nitrophenol	100-02-7	1		< 20	< 20	< 10	< 10.0	< 10.0	< 10	< 10	< 11	< 10	< 10	< 10
cenaphthene	83-32-9	20		< 10	< 10	< 1	< 0.0500	0.144	< 1	< 1	< 1	< 1	< 1	< 1



Location ID			USEPA	DC-1	DC-1	DC-1	DC-1	DC-1	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2
Sample Date		NYS TOGS	Tapwater RSL	6/21/2019	10/31/2019	4/23/2020	4/27/2021	10/6/2021	8/21/2007	11/28/2007	6/10/2008	11/18/2008	11/18/2008	7/14/2009
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG
Parameter Name				KEO	KEO	KEO	KEO	KLO	KLO	INEO	KEO	10	KEO	KEO
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							. 2.0000	2						
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													
	7440-38-2	25												
Barium Rarium (Dissalved)		1,000												
Barium (Dissolved)	7440-39-3	1,000												
Beryllium	7440-41-7	3												
Beryllium (Dissolved)	7440-41-7	3												



Location ID Sample Date		NYS TOGS	USEPA Tapwater RSL	DC-1 6/21/2019	DC-1 10/31/2019	DC-1 4/23/2020	DC-1 4/27/2021	DC-1 10/6/2021	DC-2 8/21/2007	DC-2 11/28/2007	DC-2 6/10/2008	DC-2 11/18/2008	DC-2 11/18/2008	DC-2 7/14/2009
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG
Parameter Name							0						0	
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												

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		NYS TOGS	USEPA	DC-2	DC-2	DC-2								
Sample Date	Parameter Code	GWQS	Tapwater RSL	11/10/2009	5/26/2010	10/12/2010	5/11/2011	11/10/2011	7/18/2012	10/23/2012	6/11/2013	11/13/2013	6/11/2014	11/12/2014
Sample Purpose	T didilicter code	GWQS	2019	REG	REG	REG								
Parameter Name														
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	<u>-</u>												
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
Chloroform	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	40000	< 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	<u></u>	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	-												
sopropylbenzene	98-82-8		450											
m,p-Xylenes	XYLENES-MP													



Location ID			USEPA	DC-2	DC-2	DC-2								
Sample Date		NYS TOGS	Tapwater RSL	11/10/2009	5/26/2010	10/12/2010	5/11/2011	11/10/2011	7/18/2012	10/23/2012	6/11/2013	11/13/2013	6/11/2014	11/12/2014
	Parameter Code	GWQS	2019	REG				REG					REG	
Sample Purpose Parameter Name			2013	KEG	REG	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	< 0.8	< 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														, 515
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	100-01-0	1		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 11	< 11	< 10
	83-32-9	20		< 1	< 1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Sample Purpose Parameter Name	6/11/2014	11/13/2013 REG	6/11/2013	10/23/2012	7/18/2012	11/10/2011	5/11/2011	10/12/2010	5/26/2010	11/10/2009	Tanwater RSI	NYS TOGS		
Sample Purpose Parameter Name 208-96-8 - -	< 0.1 < 0.1 < 0.1 < 0.1	REG									Tupwater Not	CWOS	Parameter Code	Sample Date
Parameter Name 208-96-8	 < 0.1 < 0.1		REG	REG	REG	REG	REG	REG	REG	REG	2019	GWQS	Parameter Code	Sample Purpose
Acatophonone 88-8-2	 < 0.1 < 0.1													Parameter Name
Anthracene 120-127 50 - <1 <1 <1 <1 <1 <1 <0.1 <0.1 <0.1 <0.1 <	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1			208-96-8	Acenaphthylene
Attazine 1912-24-9 - 0.3											1900		98-86-2	Acetophenone
Senzaldehyde 100-52-7 - 19 - - - - - - - - -		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		50	120-12-7	Anthracene
Benzo(a)anthracene 56-5-3 0.002 - <1 <1 <1 <1 <1 <1 <0.1 <0.1 <0.1 <0.1 <											0.3		1912-24-9	Atrazine
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 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1											19		100-52-7	Benzaldehyde
Benzo(ly)fluoranthene 205-99-2 0.002 <1 <1 <1 <1 <1 <1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		0.002	56-55-3	Benzo(a)anthracene
Benzo(g,h,i)perylene 191-24-2	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1	0.025		50-32-8	Benzo(a)pyrene
Benzo(k) fluoranthene 207-08-9 0.002 < 1 < 1 < 1 < 1 < 1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		0.002	205-99-2	Benzo(b)fluoranthene
bis(2-Chloroethoxy)methane 111-91-1 5 <1 <1 <1 <1 <1 <1 <1 <1 <1	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1			191-24-2	Benzo(g,h,i)perylene
bis(2-Chloroethyl) ether 111-44-4 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.6 bis(2-Chloroisopropyl) ether 108-60-1 5 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.6 bis(2-Chloroisopropyl) ether 117-81-7 5 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		0.002	207-08-9	Benzo(k)fluoranthene
bis(2-chloroisopropyl) ether 108-60-1 5 < 1 < 1 < 1 < 1 < 1 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.6 bis(2-Ethylhexyl)phthalate 117-81-7 5 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1		5	111-91-1	bis(2-Chloroethoxy)methane
Discaple 117-81-7 5	< 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1		1	111-44-4	bis(2-Chloroethyl) ether
Butylbenzylphthalate 85-68-7 50	< 0.5 < 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1		5	108-60-1	bis(2-chloroisopropyl) ether
Carbazole 105-60-2 9900	< 2 < 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		5	117-81-7	bis(2-Ethylhexyl)phthalate
Carbazole 86-74-8 < 1 < 1 < 1 < 1 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.6 Chrysene 218-01-9 0.002 < 1 < 1 < 1 < 1 < 1 < 1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	< 2 < 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		50	85-68-7	Butylbenzylphthalate
Chrysene 218-01-9 0.002 < 1 < 1 < 1 < 1 < 1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <											9900	-	105-60-2	Caprolactam
Dibenz(a,h)anthracene 84-74-2 50 <1	< 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1			86-74-8	Carbazole
Dibenzofuran 117-84-0 50 <1	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		0.002	218-01-9	Chrysene
Diethylphthalate 53-70-3 50 0.025 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		50	84-74-2	Dibenz(a,h)anthracene
Dimethyl phthalate 132-64-9 50 7.9 <2	< 0.5 < 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1		50	117-84-0	Dibenzofuran
Di-n-butylphthalate	< 2 < 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	0.025	50	53-70-3	Diethylphthalate
Di-n-octylphthalate 131-11-3 50 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	< 2 < 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	7.9	50	132-64-9	Dimethyl phthalate
	< 2 < 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		50	84-66-2	Di-n-butylphthalate
Diphenyl (Biphenyl, Phenyl benzene) 92-52-4 0.83	< 2 < 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		50	131-11-3	Di-n-octylphthalate
1.7(1.7)											0.83	-	92-52-4	Diphenyl (Biphenyl, Phenyl benzene)
Fluoranthene 206-44-0 50 <1 <1 <1 <1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		50	206-44-0	Fluoranthene
	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		50	86-73-7	Fluorene
Hexachlorobenzene 118-74-1 0.04 < 1	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		0.04	118-74-1	Hexachlorobenzene
Hexachlorobutadiene 87-68-3 0.5 < 1	< 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1		0.5	87-68-3	Hexachlorobutadiene
	< 5 < 5	< 6	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		5	77-47-4	Hexachlorocyclopentadiene
Hexachloroethane 67-72-1 5 <1 <1 <1 <1 <1 <1 <1 <1 <1	< 1 < 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		5	67-72-1	Hexachloroethane
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	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		0.002	193-39-5	Indeno(1,2,3-cd)Pyrene
Isophorone 78-59-1 50 <1 <1 <1 <1 <0.5 <0.5 <0.5 <0.5 <0.6	< 0.5 < 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1		50	78-59-1	Isophorone
Naphthalene 621-64-7 10 0.011 <1 <1 <1 <1 <0.1 <0.1 <0.1 <0.	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1	0.011	10	621-64-7	Naphthalene
	< 0.5	< 0.6			< 0.5	< 0.5	< 1	< 1	< 1	< 1		50		Nitrobenzene
	< 0.5						< 1	< 1						N-Nitrosodi-n-propylamine
	< 0.5									< 2	-	0.4		N-Nitrosodiphenylamine (Diphenylamine)
	< 0.5	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5				< 1		1		p-Chloro-m-cresol
	<1 <1							< 3	< 3	< 3				Pentachlorophenol
	< 0.1 < 0.1						< 1	< 1	< 1	< 1		50		Phenanthrene
	< 0.5										-			Phenol
	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 1		50	129-00-0	Pyrene
														Metals
											-			Aluminum
														Aluminum (Dissolved)
Antimony 7440-36-0 3											-			•
											-			Antimony (Dissolved)
											-			Arsenic
· · ·												25		Arsenic (Dissolved)
												•		Barium
												1,000		Barium (Dissolved)
Beryllium 7440-41-7 3												3		
Beryllium (Dissolved) 7440-41-7 3												3	7440-41-7	• • •
Cadmium 7440-43-9 5														



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
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												
/anadium	7440-62-2		86											
/anadium (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												
, (,	1.000.0													

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		NVS TOCS	USEPA	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	6/22/2015	11/17/2015	6/13/2016	11/15/2016	11/15/2016	6/27/2017	10/31/2017	6/12/2018	11/2/2018	6/21/2019	6/21/2019
Sample Purpose	rarameter code	GWQS	2019	REG	REG	REG	FD	REG	REG	REG	REG	REG	FD	REG
Parameter Name														
olatile Organic Compounds														
,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
,1,1,2-Tetrachloroethane	630-20-6													
,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
I,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
I,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-Dichloropropene	563-58-6													
,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
I,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



Location ID		NVC TOOS	USEPA	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2
Sample Date	Parameter Code	NYS TOGS	Tapwater RSL	6/22/2015	11/17/2015	6/13/2016	11/15/2016	11/15/2016	6/27/2017	10/31/2017	6/12/2018	11/2/2018	6/21/2019	6/21/2019
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	FD	REG	REG	REG	REG	REG	FD	REG
Parameter Name														
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
o-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	ე 1		< 0.5 < 5	< 5	< 0.5 < 5	< 5	< 0.5	< 0.5	< 0.5	< 8	< 8	< 20	< 10
	101-55-3	-						-						
4-Bromophenylphenylether 4-Chloroaniline	101-55-3	 E		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10
		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 4-Nitrophenol	100-01-6 100-02-7	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 10 < 20	< 10
	100-02-7	1		< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 20	< 20

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



Location ID			USEPA	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2
Sample Date		NYS TOGS	Tapwater RSL	6/22/2015	11/17/2015	6/13/2016	11/15/2016	11/15/2016	6/27/2017	10/31/2017	6/12/2018	11/2/2018	6/21/2019	6/21/2019
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	FD	REG	REG	REG	REG	REG	FD	REG
Parameter Name				0		0		0		0	0	0		0
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												
D = III /D!= = =	7440-41-7	•												
Beryllium (Dissolved)	7 440-41-7	3												



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



Location ID		NYS TOGS	USEPA	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	OU1EESB01	OU1EESB08	OU1EESB20
Sample Date	Parameter Code	GWQS	Tapwater RSL	10/31/2019	12/3/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021	11/19/2018	11/19/2018	11/19/2018
Sample Purpose			2019	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name												
/olatile Organic Compounds ,1 Dichloroethene	75-35-4	5		< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
,1,1,2-Tetrachloroethane	630-20-6					< 1	< 0.500	< 0.500	< 0.500			< 0.2
1,1,1-Trichloroethane	71-55-6	5		< 1.0		<1	< 0.500	< 0.500	< 0.500	< 0.3	< 0.3	< 0.3
,1,2,2-Tetrachloroethane	79-34-5	5		< 1.0		<1	< 0.500	< 0.500	< 0.500	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	79-00-5	3 1		< 1.0		< 1	< 0.500	< 0.500	< 0.500	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane (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	<u></u>				< 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	<u>_</u>				< 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	< 0.2	< 0.2	< 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			
sopropylbenzene	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



Location ID			USEPA	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	OU1EESB01	OU1EESB08	OU1EESB20
Sample Date	Doromoto O. I	NYS TOGS	Tapwater RSL	10/31/2019	12/3/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021	11/19/2018	11/19/2018	11/19/2018
Sample Purpose	Parameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name				0	0	0		0	0			0
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	1000 20 7	J		<u></u>		\ \ \	< 1.50	< 1.50	V 1.50	<u> </u>	~ 1	
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	i 5		< 10		< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
2,4-Dichloropheriol	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-Dinitrophenol	121-14-2	5		< 2.0		< 10	< 5.00	< 5.00	< 5.00	< 1	< 1	< 1
2,6-Dinitrotoluene	606-20-2	5					< 5.00		< 5.00		< 0.5	< 0.5
2-Chloronaphthalene	91-58-7	10		< 2.0 < 10		< 10		< 5.00		< 0.5 < 0.4	< 0.5	< 0.5
•						< 1	< 0.250	< 0.250	< 0.250			
2-Chlorophenol (o-Chlorophenol) 2-Methylnaphthalene	95-57-8 91-57-6	<u> </u>	36	< 10		< 10	< 1.00 < 0.250	< 1.00 < 0.250	< 1.00 0.127 J	< 0.5 < 0.1	< 0.5 < 0.1	< 0.5 < 0.1
			36	< 10								
2-Methylphenol (o-Cresol)	95-48-7	1 5		< 10			< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
2-Nitrophonal (a Nitrophonal)	88-74-4			< 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



Location ID		NVS TOCS	USEPA	DC-2	DC-2	DC-2	DC-2	DC-2	DC-2	OU1EESB01	OU1EESB08	OU1EESB20
Sample Date	Parameter Code	NYS TOGS GWQS	Tapwater RSL	10/31/2019	12/3/2019	4/23/2020	10/12/2020	4/27/2021	10/6/2021	11/19/2018	11/19/2018	11/19/2018
Sample Purpose	Farameter Code	GWQS	2019	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name												
cenaphthylene	208-96-8			< 10		< 1	< 0.0500	< 0.0500	0.381	< 0.1	< 0.1	< 0.1
cetophenone	98-86-2		1900	< 10			< 10.0	< 10.0	< 10.0	< 4	< 4	< 4
nthracene	120-12-7	50		< 10		< 1	< 0.0500	< 0.0500	0.379	< 0.1	< 0.1	0.5
trazine	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
sis(2-Chloroethoxy)methane	111-91-1	5		< 10		< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
is(2-Chloroethyl) ether	111-44-4	1		< 1.0		< 10	< 1.00	< 1.00	< 1.00	< 0.5	< 0.5	< 0.5
is(2-chloroisopropyl) ether	108-60-1	5		< 10		< 10	< 5.00	< 5.00	< 5.00	< 0.5	< 0.5	< 0.5
is(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
luoranthene	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
lexachlorobenzene	118-74-1	0.04		< 1.0		< 1	< 0.0500	< 0.0500	< 0.0500	< 0.1	< 0.1	< 0.1
lexachlorobutadiene	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
ndeno(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
sophorone	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
o-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	7440-39-3	3								1.9	1.1	1.1
Beryllium (Dissolved)	7440-41-7	3			 					< 0.091	< 0.091	< 0.091
Cadmium	7440-41-7	5								0.52 J	0.2 J	0.18 J



Location ID Sample Date Sample Purpose	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
Parameter Name	7440.42.0	-								0.45	0.45	0.45
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
ron	7439-89-6	300								60,100	30,200	64,600
ron (Dissolved)	7439-89-6	300								< 22.8	< 22.8	51.1 J
.ead	7439-92-1	25		< 1.2						42.8	11.8	23.2
.ead (Dissolved)	7439-92-1	25				< 5.0	< 5.0	< 2.0	< 2.0	< 1.1	< 1.1	< 1.1
/lagnesium	7439-95-4	35,000								61,300	17,800	8,770
Aagnesium (Dissolved)	7439-95-4	35,000								31,000	12,500	5,060
/langanese	7439-96-5	300								2,620	904	758
/langanese (Dissolved)	7439-96-5	300								66.5	< 4.9	39.8
lickel	7440-02-0	100								65.2	25.9	55.1
lickel (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
'hallium	7440-28-0	0.5								0.29 J	0.17 J	< 0.11
hallium (Dissolved)	7440-28-0	0.5								< 0.11	< 0.11	< 0.11
/anadium	7440-62-2		86							45.7	23.3	16.5
/anadium (Dissolved)	7440-62-2		86							0.26 J	< 0.24	0.28 J
linc	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)												
reiculy (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 II	D				OU3SB01	OU3SB02	OU3SB03	OU3SB04	OU3SB05
Sample Date					5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017
Field Sample II					OU3SB01-S-0.00-170522	OU3SB02-S-0.00-170522	OU3SB03-S-0.00-170522	OU3SB04-S-0.00-170522	OU3SB05-S-0.00-170522
Depth Interva					0-0.17	0-0.17	0-0.17	0-0.17	0-0.17
Sample Purpose	Parameter	375-6.8(b) &	Unrestricted Use Soil Cleanup	375-6.8(b) & CP	REG	REG	REG	REG	REG
Parameter Name	Code	CP-51 PGW	Objectives	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	<u>2.7</u>	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	<u>2.6</u>	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 phthalate	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
. ,	120 00-0	1000	100	100	0.13		0.15	0.10	0.17



Location ID Sample Date Field Sample ID Depth Interva Sample Purpose Parameter Name) 	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-0.00-170522 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-0.00-17052 0-0.17 REG
Polychlorinated Biphenyls	Oouc	CI-SITOW	Objectives	31 Residential					
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 TOXAPHENE	72-43-5	900	-	100		-		< 0.0026	
TOXAPHENE	8001-35-2							< 0.021	
Motolo					17 100	19,300	16,200	16,700	46,000
Metals	7420 00 F						16,200		16,000
Aluminum	7429-90-5	-	-		17,400				0.207.1
Aluminum Antimony	7440-36-0	-	-	-	0.344 J	0.286 J	0.372 J	0.284 J	0.207 J
Aluminum Antimony Arsenic	7440-36-0 7440-38-2	 16	 13	 16	0.344 J 8.52	0.286 J 7.4	0.372 J 7.75	0.284 J 6.96	6.22
Aluminum Antimony Arsenic Barium	7440-36-0 7440-38-2 7440-39-3	 16 820	 13 350	 16 350	0.344 J 8.52 82.3	0.286 J 7.4 84	0.372 J 7.75 79.5	0.284 J 6.96 80.2	6.22 87.7
Aluminum Antimony Arsenic Barium Beryllium	7440-36-0 7440-38-2 7440-39-3 7440-41-7	 16 820 47	 13 350 7.2	 16 350 14	0.344 J 8.52 82.3 0.776	0.286 J 7.4 84 0.879	0.372 J 7.75 79.5 0.767	0.284 J 6.96 80.2 0.656	6.22 87.7 0.782
Aluminum Antimony Arsenic Barium Beryllium Cadmium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820 47 7.50	 13 350 7.2 2.5	 16 350	0.344 J 8.52 82.3 0.776 0.154 J	0.286 J 7.4 84 0.879 0.140 J	0.372 J 7.75 79.5 0.767 0.265	0.284 J 6.96 80.2 0.656 0.179 J	6.22 87.7 0.782 0.176 J
Aluminum Antimony Arsenic Barium Beryllium	7440-36-0 7440-38-2 7440-39-3 7440-41-7	 16 820 47	 13 350 7.2 2.5	16 350 14 2.5	0.344 J 8.52 82.3 0.776 0.154 J 715	0.286 J 7.4 84 0.879 0.140 J 606	0.372 J 7.75 79.5 0.767 0.265 656	0.284 J 6.96 80.2 0.656 0.179 J 1,470	6.22 87.7 0.782 0.176 J 875
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50	 13 350 7.2 2.5	 16 350 14 2.5	0.344 J 8.52 82.3 0.776 0.154 J	0.286 J 7.4 84 0.879 0.140 J	0.372 J 7.75 79.5 0.767 0.265	0.284 J 6.96 80.2 0.656 0.179 J	6.22 87.7 0.782 0.176 J
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50	 13 350 7.2 2.5 30	 16 350 14 2.5 36	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6	0.286 J 7.4 84 0.879 0.140 J 606 20	0.372 J 7.75 79.5 0.767 0.265 656 18.3	0.284 J 6.96 80.2 0.656 0.179 J 1,470	6.22 87.7 0.782 0.176 J 875 18.1
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	 16 820 47 7.50 	 13 350 7.2 2.5 30	 16 350 14 2.5 36	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19	6.22 87.7 0.782 0.176 J 875 18.1 8.95
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50 1720	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19 10.4 23.6	6.22 87.7 0.782 0.176 J 875 18.1 8.95
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19 10.4 23.6 23,900	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720 450	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19 10.4 23.6 23,900 50.3	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-70-2 7440-70-2 7440-48-4 7440-50-8 7439-89-6 7439-95-4	 16 820 47 7.50 1720 450	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000 400	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19 10.4 23.6 23,900 50.3 4,520	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7440-50-8 7439-92-1 7439-95-4 7439-96-5	 16 820 47 7.50 1720 450 2000	 13 350 7.2 2.5 30 50 63 1600	16 350 14 2.5 36 30 270 2000 400 2000	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020 782	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190 809	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120 679	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19 10.4 23.6 23,900 50.3 4,520 803	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480 1,250
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-96-5 7440-02-0	 16 820 47 7.50 1720 450 2000	 13 350 7.2 2.5 30 50 63 1600 30	16 350 14 2.5 36 30 270 2000 400 2000 140	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020 782 22.8	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190 809 21.2	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120 679 22.2 1,290 0.502 J	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19 10.4 23.6 23,900 50.3 4,520 803 22.5	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480 1,250
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7	 16 820 47 7.50 1720 450 2000 130	 13 350 7.2 2.5 30 50 63 1600 30	 16 350 14 2.5 36 30 270 2000 400 2000 140	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020 782 22.8 1,340	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190 809 21.2	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120 679 22.2 1,290	0.284 J 6.96 80.2 0.656 0.179 J 1.470 19 10.4 23.6 23,900 50.3 4,520 803 22.5 1,220	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480 1,250 19.7 1,260
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Siliver Sodium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-1 7439-96-5 7440-02-0 7440-09-7 7782-49-2	 16 820 47 7.50 1720 450 2000 130 4	 13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020 782 22.8 1,340 0.588 J	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190 809 21.2 1,440 0.579 J	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120 679 22.2 1,290 0.502 J	0.284 J 6.96 80.2 0.656 0.179 J 1.470 19 10.4 23.6 23,900 50.3 4,520 803 22.5 1,220 0.505 J	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480 1,250 19.7 1,260
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2		13 350 7.2 2.5 30 50 63 1600 30 3.9	16 350 14 2.5 36 30 270 2000 400 2000 140 36 36	0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020 782 22.8 1,340 0.588 J 0.129 J	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190 809 21.2 1,440 0.579 J 0.125 J	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120 679 22.2 1,290 0.502 J 0.0930 J	0.284 J 6.96 80.2 0.656 0.179 J 1.470 19 10.4 23.6 23.900 50.3 4.520 803 22.5 1.220 0.505 J 0.0868 J	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480 1,250 19.7 1,260 0.492 J 0.117 J
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-99-6 7439-99-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5		13 350 7.2 2.5 30 63 1600 30 3.9 2		0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020 782 22.8 1,340 0.588 J 0.129 J 70.3 J	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190 809 21.2 1,440 0.579 J 0.125 J 101 J	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120 679 22.2 1,290 0.502 J 0.0930 J 59.2 J	0.284 J 6.96 80.2 0.656 0.179 J 1,470 19 10.4 23.6 23,900 50.3 4,520 803 22.5 1,220 0.505 J 0.0868 J 207	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480 1,250 19.7 1,260 0.492 J 0.117 J 68.6 J
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-9 7440-47-3 7440-48-4 7440-50-8 7439-98-6 7439-95-4 7439-95-4 7439-95-7 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-28-0		 13 350 7.2 2.5 30 50 63 1600 30 3.9 2		0.344 J 8.52 82.3 0.776 0.154 J 715 18.6 8.88 18.3 21,600 40.7 4,020 782 22.8 1,340 0.588 J 0.129 J 70.3 J 0.179 J	0.286 J 7.4 84 0.879 0.140 J 606 20 11.4 24.1 24,000 53.1 4,190 809 21.2 1,440 0.579 J 0.125 J 101 J 0.221 J	0.372 J 7.75 79.5 0.767 0.265 656 18.3 9.65 20.8 22,500 45.2 4,120 679 22.2 1,290 0.502 J 0.0930 J 59.2 J 0.172 J	0.284 J 6.96 80.2 0.656 0.179 J 1.470 19 10.4 23.6 23,900 50.3 4,520 803 22.5 1,220 0.505 J 0.0868 J 207 0.159 J	6.22 87.7 0.782 0.176 J 875 18.1 8.95 15.9 19,300 58.5 3,480 1,250 19.7 1,260 0.492 J 0.117 J 68.6 J 0.179 J

All values are provided in milligrams per kilogram (mg/kg)

--: Not applicable SCO: Soil Cleanup Objective PGW: Protection of Groundwater

S Not detected at the laboratory method detection limit.
 Result detected a the laboratory method detection limit.

J: Result detected between the reporting limit and the met Underline: Exceeds PGW SCO Bold: Exceeds Unrestricted SCO Highlighted Blue: Exceeds Residential SCO Highlighted Yellow: Exceeds Restricted-Residential SCO



	Parameter				OU3SB01 5/22/2017	OU3SB01 5/22/2017	OU3SB01 5/22/2017	OU3SB02 5/22/2017	OU3SB02 5/22/2017	OU3SB02 5/22/2017	OU3SB03 5/22/2017	OU3SB03 5/22/2017	OU3SB03 5/22/2017	OU3SB04 5/22/2017
ield Sample ID Depth Interval Imple Purpose F	Parameter													
imple Purpose F	Parameter				OU3SB01-S-0.17-170522	OU3SB01-S-0.50-170522	OU3SB01-S-1.00-170522	OU3SB02-S-0.17-170522	OU3SB02-S-0.50-170522	OU3SB02-S-1.00-170522	OU3SB03-S-0.17-17052	2 OU3SB03-S-0.50-170522	OU3SB03-S-1.00-170522	OU3SB04-S-0.17-1
	Parameter		Unrestricted Use		0.17-0.5	0.5-1	1-2	0.17-0.5	0.5-1	1-2	0.17-0.5	0.5-1	1-2	0.17-0.5
		375-6.8(b) & CP-51	Soil Cleanup	375-6.8(b) & CP-51	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Code	PGW	Objectives	Residential										/
												1		
	35-4	0.33	0.33	100							< 0.001	< 0.001	< 0.001	
71-		0.68	0.68	100	-				-		< 0.001	< 0.001	< 0.001	
	34-5	0.6	-	35							< 0.001	< 0.001	< 0.001	
	00-5	-		-							< 0.001	< 0.001	< 0.001	
n 113) 76-	13-1	6	-	100							< 0.002	< 0.002	< 0.002	
75-3	34-3	0.27	0.27	19							< 0.001	< 0.001	< 0.001	
87-0	61-6			-							< 0.001	< 0.001	< 0.001	
120	0-82-1	3.4		-							< 0.001	< 0.001	< 0.001	
CP) 96-	12-8			-							< 0.002	< 0.002	< 0.002	
106	6-93-4	-		-							< 0.001	< 0.001	< 0.001	
nzene) 95-	50-1	1.1	1.1	100							< 0.001	< 0.001	< 0.001	
		0.02	0.02	2.3							< 0.001	< 0.001		
			-	_										
			2.4	17										
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								-						
		-	-	-										
		-	-	-	-				-					
		-		-							< 0.002	< 0.002	< 0.002	
			-								< 0.001		< 0.001	
56-2	23-5	0.76	0.76	1.4							< 0.001	< 0.001	< 0.001	
108	8-90-7	1.1	1.1	100							< 0.001	< 0.001	< 0.001	
75-0	-00-3	1.9		-							< 0.002	< 0.002	< 0.002	
67-6	-66-3	0.37	0.37	10							< 0.001	< 0.001	< 0.001	
74-	87-3	-		-							< 0.002	< 0.002	< 0.002	
156	6-59-2	0.25	0.25	59							< 0.001	< 0.001	< 0.001	
100	061-01-5	-		-							< 0.001	< 0.001	< 0.001	
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			-	-										
		0.05	0.05	51							< 0.002	< 0.002		
		-	-	-							< 0.001	< 0.001	< 0.001	
		-	-	-							< 0.001	< 0.001	< 0.001	
994	4-05-8	-	-	-							< 0.001	< 0.001	< 0.001	
75-0	65-0	-		_							< 0.022	< 0.019	< 0.019	
127	7-18-4	1.3	1.3	5.5							< 0.001	< 0.001	< 0.001	
		0.7	0.7	100							< 0.001	< 0.001	< 0.001	
nz)	75- 87- 87- 87- 87- 87- 87- 87- 87- 87- 87	75-34-3 87-61-6 120-82-1 P) 96-12-8 106-93-4 zene) 95-50-1 107-06-2 78-87-5 541-73-1 106-46-7 78-93-3 591-78-6 108-10-1 67-64-1 71-43-2 74-97-5 75-27-4 75-25-2 74-83-9 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 156-59-2 10061-01-5 110-82-7 124-48-1 75-71-8 108-20-3 637-92-3 100-41-4 98-82-8 XYLENES-MP 79-20-9 1634-04-4 108-87-2	75-34-3 0.27 87-61-6	75-34-3	75-34-3	75-34-3	375.34-3	75-34-3	75-34-3 87-61-6 87-61-6	75-94-3	75445	T-93-43	P3-94-5 0.27	Fig. 1944 97



	Location ID					OU3SB01	OU3SB01	OU3SB01	OU3SB02	OU3SB02	OU3SB02	OU3SB03	OU3SB03	OU3SB03	OU3SB04
	Sample Date					5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017
	Field Sample ID Depth Interval			Unrestricted Use		OU3SB01-S-0.17-170522 0.17-0.5	OU3SB01-S-0.50-170522 0.5-1	OU3SB01-S-1.00-170522 1-2	OU3SB02-S-0.17-170522 0.17-0.5	2 OU3SB02-S-0.50-17052 0.5-1	22 OU3SB02-S-1.00-170522 1-2	OU3SB03-S-0.17-17052 0.17-0.5	2 OU3SB03-S-0.50-17052 0.5-1	2 OU3SB03-S-1.00-170522 1-2	OU3SB04-S-0.17-1705 0.17-0.5
	Sample Purpose	Parameter	375-6.8(b) & CP-51	Soil Cleanup	375-6.8(b) & CP-51	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name		Code	PGW	Objectives	Residential										
emivolatile Organic Compound							1	1	1	<u> </u>		l		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
4-Dioxane 3,4,6-Tetrachlorophenol		23-91-1 58-90-2	0.1	0.1	9.8	< 0.12 < 0.082	< 0.12 < 0.080	< 0.12 < 0.080	< 0.14 < 0.092	< 0.12 < 0.082	< 0.12 < 0.079	< 0.13 < 0.085	< 0.11 < 0.076	< 0.12 < 0.080	< 0.12 < 0.083
4,5-Trichlorophenol)5-95-4	0.1		100	< 0.021	< 0.02	< 0.02	< 0.032	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
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
4-Dichlorophenol	1	20-83-2	0.4		100	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
4-Dimethylphenol		05-67-9			-	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
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
4-Dinitrotoluene		21-14-2		-		< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
6-Dinitrotoluene Chloronaphthalene		606-20-2 91-58-7	0.17		1.03	< 0.021 < 0.008	< 0.02 < 0.008	< 0.02 < 0.008	< 0.023 < 0.009	< 0.021 < 0.008	< 0.02 < 0.008	< 0.021 < 0.009	< 0.019 < 0.008	< 0.02 < 0.008	< 0.021 < 0.008
-Chlorophenol (o-Chlorophenol))5-57-8	-		100	< 0.000	< 0.02	< 0.02	< 0.003	< 0.021	< 0.02	< 0.009	< 0.019	< 0.02	< 0.008
-Methyl-Naphthalene		1-57-6	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
Methylphenol (o-Cresol)	9	5-48-7	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
-Nitroaniline (o-Nitroaniline)	8	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
-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'-Dichlorobenzidine		01-94-1				< 0.12	< 0.12	< 0.12	< 0.14	< 0.12	< 0.12	< 0.13	< 0.11	< 0.12	< 0.12
Nitroaniline 6-Dinitro-2-methylphenol (4 6-Dir		9-09-2	0.5	-	-	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
6-Dinitro-2-methylphenol (4,6-Dir Bromophenylphenylether	,	34-52-1 01-55-3	-		-	< 0.21 < 0.021	< 0.2 < 0.02	< 0.2 < 0.02	< 0.23 < 0.023	< 0.21 < 0.021	< 0.2 < 0.02	< 0.21 < 0.021	< 0.19 < 0.019	< 0.2 < 0.02	< 0.21 < 0.021
Chloroaniline		06-47-8	0.22	-	100	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.039	< 0.043	< 0.019	< 0.02	< 0.021
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
Methylphenol (p-Cresol)	1	06-44-5	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
-Nitroaniline	1	00-01-6			-	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
Nitrophenol		00-02-7	0.1	-	-	< 0.21	< 0.2	< 0.2	< 0.23	< 0.21	< 0.2	< 0.21	< 0.19	< 0.2	< 0.21
cenaphthene		33-32-9	98	20	100	< 0.004	< 0.004	< 0.004	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
cenaphthylene		208-96-8	107	100	100	0.01 J	< 0.004	< 0.004	0.015 J	0.007 J	< 0.004	0.007 J	< 0.004	< 0.004	0.015 J
cetophenone nthracene		98-86-2 20-12-7	1000	100	100	< 0.021 0.008 J	< 0.020 < 0.004	< 0.020 < 0.004	< 0.023 0.021 J	< 0.021 0.01 J	< 0.020 < 0.004	< 0.021 0.008 J	< 0.019 < 0.004	< 0.020 < 0.004	< 0.021 0.01 J
trazine		912-24-9			-	< 0.041	< 0.040	< 0.040	< 0.046	< 0.041	< 0.039	< 0.043	< 0.038	< 0.040	< 0.041
enzaldehyde		00-52-7	-	-	_	0.093 J	< 0.080	< 0.080	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.080	< 0.083
enzo(a)anthracene	5	6-55-3	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
enzo(a)pyrene	5	0-32-8	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
enzo(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
enzo(g,h,i)perylene		91-24-2	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
enzo(k)fluoranthene is(2-Chloroethoxy)methane		207-08-9 11-91-1	1.7	0.8	1	0.015 J < 0.021	< 0.004 < 0.02	0.006 J < 0.02	0.041 < 0.023	0.026 < 0.021	< 0.004 < 0.02	0.015 J < 0.021	< 0.004 < 0.019	< 0.004 < 0.02	0.019 J < 0.021
s(2-Chloroethyl) ether		11-44-4	-		_	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
s(2-chloroisopropyl) ether		08-60-1				< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
s(2-Ethylhexyl)phthalate		17-81-7	435	-	50	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
utylbenzylphthalate	8	35-68-7	122	-	100	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
aprolactam		05-60-2	-		-	< 0.041	< 0.040	< 0.040	< 0.046	< 0.041	< 0.039	< 0.043	< 0.038	< 0.040	< 0.041
arbazole		36-74-8	-	-	-	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
hrysene i n hutulahthalata		218-01-9	1	1	1	0.043	0.006 J	0.013 J	0.093	0.048	0.008 J	0.036	0.006 J	< 0.004	0.041
i-n-butylphthalate i-n-octylphthalate		34-74-2 117-84-0	8.1 120		100 100	< 0.082 < 0.082	< 0.08 < 0.08	< 0.08 < 0.08	< 0.092 < 0.092	< 0.082 < 0.082	< 0.079 < 0.079	< 0.085 < 0.085	< 0.076 < 0.076	< 0.08 < 0.08	< 0.083 < 0.083
i-n-octylphthalate ibenz(a,h)anthracene		3-70-3	1000	0.33	0.33	< 0.082 0.007 J	< 0.08	< 0.08 0.004 J	< 0.092 0.017 J	< 0.082 0.009 J	< 0.079	< 0.085 0.009 J	< 0.076	< 0.004	< 0.083 0.008 J
benzofuran		32-64-9	6.20	7	14	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
iethylphthalate		34-66-2	7.1		100	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
methyl phthalate	1	31-11-3	27	-	100	< 0.082	< 0.08	< 0.08	< 0.092	< 0.082	< 0.079	< 0.085	< 0.076	< 0.08	< 0.083
ohenyl (Biphenyl, Phenyl benzer		2-52-4		-	-	< 0.021	< 0.020	< 0.020	< 0.023	< 0.021	< 0.020	< 0.021	< 0.019	< 0.020	< 0.021
uoranthene		206-44-0	1000	100	100	0.06	0.006 J	0.021	0.16	0.079	0.013 J	0.052	0.007 J	0.004 J	0.057
iorene		86-73-7	386	30	100	0.004 J	< 0.004	< 0.004	0.006 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006 J
xachlorobenzene xachlorobutadiene		18-74-1 37-68-3	1.4	0.33	0.33	< 0.004 < 0.021	< 0.004 < 0.02	< 0.004 < 0.02	< 0.005 < 0.023	< 0.004 < 0.021	< 0.004 < 0.02	< 0.004 < 0.021	< 0.004 < 0.019	< 0.004 < 0.02	< 0.004 < 0.021
xachlorocyclopentadiene		7-66-3 7-47-4	-	-	-	< 0.21	< 0.02	< 0.02	< 0.023	< 0.21	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
xachloroethane		7- 7 7- 7 57-72-1	-	-	_	< 0.041	< 0.04	< 0.04	< 0.046	< 0.041	< 0.039	< 0.043	< 0.038	< 0.04	< 0.041
eno(1,2,3-cd)Pyrene		93-39-5	8.2	0.5	0.5	0.023	< 0.004	0.009 J	0.051	0.027	0.006 J	0.021 J	< 0.004	< 0.004	0.021
phorone		78-59-1	4.4	-	100	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
Nitrosodi-n-propylamine		21-64-7			-	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
Nitrosodiphenylamine (Diphenylamine)		86-30-6	-		-	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
phthalene		01-20-3	12	12	100	0.018 J	< 0.004	< 0.004	0.012 J	0.006 J	< 0.004	0.005 J	< 0.004	< 0.004	0.006 J
trobenzene		98-95-3 10-50-7	0.17	-	3.7	< 0.021	< 0.02	< 0.02	< 0.023	< 0.021	< 0.02	< 0.021	< 0.019	< 0.02	< 0.021
Chloro-m-cresol entachlorophenol		59-50-7 37-86-5	0.8	0.8	2.4	< 0.021 < 0.041	< 0.02 < 0.04	< 0.02 < 0.04	< 0.023 < 0.046	< 0.021 < 0.041	< 0.02 < 0.039	< 0.021 < 0.043	< 0.019 < 0.038	< 0.02 < 0.04	< 0.021 < 0.041
enanthrene		87-86-5 85-01-8	1000	100	100	0.041	< 0.04	< 0.04 0.006 J	< 0.046 0.081	0.035	< 0.039 0.006 J	0.032	< 0.038 0.005 J	< 0.04 0.004 J	< 0.041 0.052
enol		08-95-2	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
rene		29-00-0	1000	100	100	0.057	0.006 J	0.021	0.15	0.071	0.013 J	0.052	0.007 J	0.005 J	0.069



Location Sample Da Field Sample	te				OU3SB01 5/22/2017 OU3SB01-S-0.17-170522	OU3SB01 5/22/2017 OU3SB01-S-0.50-170522	OU3SB01 5/22/2017 OU3SB01-S-1.00-170522	OU3SB02 5/22/2017 OU3SB02-S-0.17-170522	OU3SB02 5/22/2017 OU3SB02-S-0.50-170522	OU3SB02 5/22/2017 OU3SB02-S-1.00-170522	OU3SB03 5/22/2017 OU3SB03-S-0.17-170522	OU3SB03 5/22/2017 OU3SB03-S-0.50-170522	OU3SB03 5/22/2017 OU3SB03-S-1.00-170522	OU3SB04 5/22/2017 OU3SB04-S-0.17-17052
Depth Interv	al	275 C 0/h) 9 CD 54	Unrestricted Use	275 C 0/L\ 9 CD 54	0.17-0.5	0.5-1	1-2	0.17-0.5	0.5-1	1-2	0.17-0.5	0.5-1	1-2	0.17-0.5
Sample Purpo Parameter Name	se Parameter Code	375-6.8(b) & CP-51 PGW	Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
olychlorinated Biphenyls	Code		Objectives	residential										
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	-		-										< 0.0041
Aroclor 1260 Aroclor 1262	37324-23-5	-		_										
Aroclor 1268	11100-14-4	-	-					-						< 0.0041 < 0.0041
Pesticides	11100-14-4	-		-										< 0.0041
	70.54.0	44	0.0000											0.00044
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	382	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
	7440-48-4	-	-	30	6.8	12.8	12.5	12.2	11.1	11.5	8.8	11.2	11.4	11.5
Cobalt		1720	50	270	11.8	16.5	20.3	21.8	20.7	24.7	24.9	24.2	23.1	20.3
Cobalt Copper	7440-50-8						30,100	28,900	26,800	30,700	23,400	28,900	27,700	26,000
Copper	7440-50-8 7439-89-6			2000	17.500	28,400			_0,000		·		13	27.8
Copper Iron	7439-89-6	-		2000 400	17,500 19.2	28,400 18.1		·	21.9	17.3	34.9	1h		27.0
Copper Iron Lead	7439-89-6 7439-92-1		 63 	400	19.2	18.1	16.9	40	21.9 4 730	17.3 5.410	34.9 4 140	16 4 900		4 870
Copper Iron Lead Magnesium	7439-89-6 7439-92-1 7439-95-4	 450 	63 	400	19.2 3,040	18.1 4,950	16.9 5,450	40 4,950	4,730	5,410	4,140	4,900	5,110	4,870 720
Copper Iron Lead Magnesium Manganese	7439-89-6 7439-92-1 7439-95-4 7439-96-5	 450 2000	63 1600	400 2000	19.2 3,040 456	18.1 4,950 725	16.9 5,450 672	40 4,950 937	4,730 673	5,410 674	4,140 532	4,900 561	5,110 584	720
Copper Iron Lead Magnesium Manganese Nickel	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0	 450 2000 130	63 1600 30	400 2000 140	19.2 3,040 456 14.9	18.1 4,950 725 23.7	16.9 5,450 672 24.9	40 4,950 937 23.3	4,730 673 21.9	5,410 674 25.9	4,140 532 21.1	4,900 561 23.7	5,110 584 25.7	720 22.2
Copper Iron Lead Magnesium Manganese Nickel Potassium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	 450 2000 130	63 1600 30 	400 2000 140 	19.2 3,040 456 14.9 993	18.1 4,950 725 23.7 1,250	16.9 5,450 672 24.9 1,570	40 4,950 937 23.3 1,440	4,730 673 21.9 1,560	5,410 674 25.9 1,730	4,140 532 21.1 1,340	4,900 561 23.7 1,810	5,110 584 25.7 1,950	720 22.2 1,460
Copper Iron Lead Magnesium Minganese Nickel Potassium Selenium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2	 450 2000 130 4	63 1600 30 3.9	400 2000 140 36	19.2 3,040 456 14.9 993 0.344 J	18.1 4,950 725 23.7 1,250 0.367 J	16.9 5,450 672 24.9 1,570 0.380 J	40 4,950 937 23.3 1,440 0.534 J	4,730 673 21.9 1,560 0.471 J	5,410 674 25.9 1,730 0.301 J	4,140 532 21.1 1,340 0.472 J	4,900 561 23.7 1,810 0.334 J	5,110 584 25.7 1,950 0.246 J	720 22.2 1,460 0.489 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4	 450 2000 130 4 8.3	63 1600 30 3.9	400 2000 140 36 36	19.2 3,040 456 14.9 993 0.344 J	18.1 4,950 725 23.7 1,250 0,367 J 0.0351 J	16.9 5,450 672 24.9 1,570 0,380 J < 0.0278	40 4,950 937 23.3 1,440 0.534 J 0.0849 J	4,730 673 21.9 1,560 0.471 J 0.0670 J	5,410 674 25.9 1,730 0.301 J < 0.0281	4,140 532 21.1 1,340 0.472 J 0.0769 J	4,900 561 23.7 1,810 0.334 J 0.0353 J	5,110 584 25.7 1,950 0.246 J < 0.0220	720 22.2 1,460 0.489 J 0.0509 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5	 450 2000 130 4 8.3	63 1600 30 3.9 2	400 2000 140 36 36	19.2 3,040 456 14.9 993 0.344 J 0.0646 J 47.6 J	18.1 4,950 725 23.7 1,250 0.367 J 0.0351 J 45.0 J	16.9 5,450 672 24.9 1,570 0.380 J < 0.0278 56.5 J	40 4,950 937 23.3 1,440 0.534 J 0.0849 J 90.8 J	4,730 673 21.9 1,560 0.471 J 0.0670 J 94.5 J	5,410 674 25.9 1,730 0.301 J < 0.0281 86.6 J	4,140 532 21.1 1,340 0,472 J 0,0769 J 65.6 J	4,900 561 23.7 1,810 0.334 J 0.0353 J 66.5 J	5,110 584 25.7 1,950 0.246 J < 0.0220 71.0 J	720 22.2 1,460 0.489 J 0.0509 J 453
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	 450 2000 130 4 8.3 	63 1600 30 3.9 2	400 2000 140 36 36 	19.2 3,040 456 14.9 993 0.344 J 0.0646 J 47.6 J 0.110 J	18.1 4,950 725 23.7 1,250 0.367 J 0.0351 J 45.0 J 0.116 J	16.9 5,450 672 24.9 1,570 0.380 J < 0.0278 56.5 J 0.126 J	40 4,950 937 23.3 1,440 0.534 J 0.0849 J 90.8 J 0.188 J	4,730 673 21.9 1,560 0.471 J 0.0670 J 94.5 J 0.190 J	5,410 674 25.9 1,730 0.301 J < 0.0281 86.6 J 0.142 J	4,140 532 21.1 1,340 0.472 J 0.0769 J 65.6 J 0.159 J	4,900 561 23.7 1,810 0.334 J 0.0353 J 66.5 J 0.133 J	5,110 584 25.7 1,950 0.246 J < 0.0220 71.0 J 0.121 J	720 22.2 1,460 0.489 J 0.0509 J 453 0.188 J
Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	 450 2000 130 4 8.3 	63 1600 30 3.9 2 	400 2000 140 36 36 100	19.2 3,040 456 14.9 993 0.344 J 0.0646 J 47.6 J 0.110 J 23.5	18.1 4,950 725 23.7 1,250 0.367 J 0.0351 J 45.0 J 0.116 J 26.3	16.9 5,450 672 24.9 1,570 0.380 J < 0.0278 56.5 J 0.126 J 27.4	40 4,950 937 23.3 1,440 0.534 J 0.0849 J 90.8 J 0.188 J 36.3	4,730 673 21.9 1,560 0.471 J 0.0670 J 94.5 J 0.190 J 29.9	5,410 674 25.9 1,730 0.301 J < 0.0281 86.6 J 0.142 J 26.8	4,140 532 21.1 1,340 0.472 J 0.0769 J 65.6 J 0.159 J 32.3	4,900 561 23.7 1,810 0.334 J 0.0353 J 66.5 J 0.133 J 26.4	5,110 584 25.7 1,950 0.246 J < 0.0220 71.0 J 0.121 J 25.4	720 22.2 1,460 0.489 J 0.0509 J 453 0.188 J 31.4
Copper Iron	7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0	 450 2000 130 4 8.3 	63 1600 30 3.9 2	400 2000 140 36 36 	19.2 3,040 456 14.9 993 0.344 J 0.0646 J 47.6 J 0.110 J	18.1 4,950 725 23.7 1,250 0.367 J 0.0351 J 45.0 J 0.116 J	16.9 5,450 672 24.9 1,570 0.380 J < 0.0278 56.5 J 0.126 J	40 4,950 937 23.3 1,440 0.534 J 0.0849 J 90.8 J 0.188 J	4,730 673 21.9 1,560 0.471 J 0.0670 J 94.5 J 0.190 J	5,410 674 25.9 1,730 0.301 J < 0.0281 86.6 J 0.142 J	4,140 532 21.1 1,340 0.472 J 0.0769 J 65.6 J 0.159 J	4,900 561 23.7 1,810 0.334 J 0.0353 J 66.5 J 0.133 J	5,110 584 25.7 1,950 0.246 J < 0.0220 71.0 J 0.121 J	720 22.2 1,460 0.489 J 0.0509 J 453 0.188 J

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 I	D			<u></u>	OU3SB04	OU3SB04	OU3SB04	OU3SB05	OU3SB05	OU3SB05
Sample Date					5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017	5/22/2017
Field Sample I						OU3SB04-S-1.00-170522	OU3SB04-SD-0.17-		OU3SB05-S-0.50-170522	
Depth Interv			Unrestricted Use		0.5-1	1-2	0.17-0.5	0.17-0.5	0.5-1	1-2
Sample Purpos		375-6.8(b) & CP-51	Soil Cleanup	375-6.8(b) & CP-51	REG	REG	FD	REG	REG	REG
Parameter Name	Code	PGW	Objectives	Residential						
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	0.02	0.02	2.3				-		
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						
		0.25	0.25		-					
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			-						
		- 42								
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				OU3SB04	OU3SB04	OU3SB04	OU3SB05	OU3SB05	OU3SB05
	Sample Date				5/22/2017 OU3SB04-S-0.50-17052	5/22/2017 2 OU3SB04-S-1.00-170522	5/22/2017 OU3SB04-SD-0.17-	5/22/2017 OU3SB05-S-0.17-170522	5/22/2017 OU3SB05-S-0.50-170522	5/22/2017 OU3SB05-S-1.00-17052
	epth Interval		Unrestricted Use		0.5-1	1-2	0.17-0.5	0.17-0.5	0.5-1	1-2
	ple Purpose Paramete		Soil Cleanup	375-6.8(b) & CP-51	REG	REG	FD	REG	REG	REG
Parameter Name Semivolatile Organic Compounds	Code	PGW	Objectives	Residential				<u> </u>		
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 2-Chlorophenol (o-Chlorophenol)	91-58-7 95-57-8	-		100	< 0.008 < 0.02	< 0.008 < 0.02	< 0.008	< 0.008 < 0.02	< 0.008	< 0.008 < 0.02
2-Methyl-Naphthalene	91-57-6	36.4	-	0.41	< 0.02	< 0.02	< 0.02 0.004 J	0.005 J	< 0.02 < 0.004	< 0.02
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-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 Acenaphthylene	83-32-9	98 107	20 100	100 100	< 0.004 0.01 J	< 0.004 0.006 J	< 0.004	< 0.004 0.016 J	< 0.004 0.006 J	< 0.004 < 0.004
Acetophenone	208-96-8 98-86-2				< 0.020	< 0.020	0.015 J < 0.020	< 0.020	< 0.020	< 0.004
Anthracene	120-12-7	1000	100	100	0.008 J	< 0.020	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 Butylbenzylphthalate	117-81-7 85-68-7	435 122		50 100	< 0.079 < 0.079	< 0.082 < 0.082	< 0.079 < 0.079	< 0.081 < 0.081	< 0.08 < 0.08	< 0.079 < 0.079
Caprolactam	105-60-2				< 0.040	< 0.082	< 0.079	< 0.041	< 0.040	< 0.040
Carbazole	86-74-8	-		-	< 0.02	< 0.02	< 0.039	< 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 Hexachlorobutadiene	118-74-1 87-68-3	1.4	0.33	0.33	< 0.004 < 0.02	< 0.004 < 0.02	< 0.004 < 0.02	< 0.004 < 0.02	< 0.004 < 0.02	< 0.004 < 0.02
Hexachlorocyclopentadiene	77-47-4	-		-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
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 (Diphenylami		-		-	< 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



Sample Dat Field Sample II Depth Interva Sample Purpos Parameter Name	o al	375-6.8(b) & CP-51 PGW	Unrestricted Use Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	0.5-1	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			
					< 0.002	< 0.0021	< 0.002			
METHOXYCHLOR	72-43-5	900		100						
TOXAPHENE		900		100	< 0.002	< 0.0021	< 0.017			
TOXAPHENE Metals	72-43-5 8001-35-2				< 0.017	< 0.017	< 0.017			
TOXAPHENE Metals Aluminum	72-43-5 8001-35-2 7429-90-5				< 0.017	< 0.017	< 0.017	16,300	18,900	22,500
TOXAPHENE Metals Aluminum Antimony	72-43-5 8001-35-2 7429-90-5 7440-36-0				< 0.017 16,400 0.123 J	< 0.017 18,900 0.167 J	< 0.017 12,000 0.113 J	16,300 0.0998 J	 18,900 0.162 J	22,500 0.192 J
TOXAPHENE Metals Aluminum Antimony Arsenic	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2	 16	 13	 16	< 0.017 16,400 0.123 J 6.23	< 0.017 18,900 0.167 J 8.23	< 0.017 12,000 0.113 J 5.1	16,300 0.0998 J 5.51	18,900 0.162 J 7.06	22,500 0.192 J 6.99
TOXAPHENE Metals Aluminum Antimony Arsenic Barium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3	 16 820	 13 350	 16 350	< 0.017 16,400 0.123 J 6.23 52.5	< 0.017 18,900 0.167 J 8.23 65.5	< 0.017 12,000 0.113 J 5.1 44.8	16,300 0.0998 J 5.51 64.7	18,900 0.162 J 7.06 86.1	22,500 0.192 J 6.99 98.6
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7	 16 820 47	 13 350 7.2	 16 350	< 0.017 16,400 0.123 J 6.23 52.5 0.706	< 0.017 18,900 0.167 J 8.23 65.5 0.812	< 0.017 12,000 0.113 J 5.1 44.8 0.471	16,300 0.0998 J 5.51 64.7 0.873	18,900 0.162 J 7.06 86.1 0.868	22,500 0.192 J 6.99 98.6 1.01
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	 16 820 47 7.50	 13 350 7.2 2.5	 16 350 14 2.5	< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J	< 0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J	16,300 0.0998 J 5.51 64.7 0.873 0.120 J	18,900 0.162 J 7.06 86.1 0.868 0.148 J	22,500 0.192 J 6.99 98.6 1.01 0.0870 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	 16 820 47 7.50	 13 350 7.2 2.5	 16 350 14 2.5	< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464	< 0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529	22,500 0.192 J 6.99 98.6 1.01 0.0870 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3	 16 820 47 7.50	 13 350 7.2 2.5 30	 16 350 14 2.5 36	< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1	< 0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Cadmium Calcium Chromium Cobalt	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4	 16 820 47 7.50 	 13 350 7.2 2.5 30	 16 350 14 2.5 36 30	< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1	< 0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	 16 820 47 7.50 1720	 13 350 7.2 2.5 30 	 16 350 14 2.5 36 30	<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6	< 0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-70-2 7440-70-2 7440-48-4 7440-50-8 7439-89-6	 16 820 47 7.50 1720	 13 350 7.2 2.5 30 50	 16 350 14 2.5 36 30 270 2000	<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900	<0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1	 16 820 47 7.50 1720 450	 13 350 7.2 2.5 30 50 	 16 350 14 2.5 36 30 270 2000 400	<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2	<0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4	 16 820 47 7.50 1720 450	 13 350 7.2 2.5 30 50 63	 16 350 14 2.5 36 30 270 2000 400	<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5	 16 820 47 7.50 1720 450 	 13 350 7.2 2.5 30 50 63 	 16 350 14 2.5 36 30 270 2000 400 	<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996	<0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7440-02-0		 13 350 7.2 2.5 30 50 63 1600 30		<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7	16 820 47 7.501 1720 450 2000 130		 16 350 14 2.5 36 30 270 2000 400 2000 140	<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6 1,090	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5 1,680	<0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3 756	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580 26 715	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8 1,300	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2 1,890
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Calcium Chromium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2				< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6 1,090 0.394 J	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5 1,680 0.380 J	<0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3 756 0.358 J	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580 26 715 0.329 J	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8 1,300 0.400 J	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2 1,890 0.447 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-22-4				< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6 1,090 0.394 J 0.0283 J	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5 1,680 0.380 J <0.0216	<0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3 756 0.358 J 0.0436 J	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580 26 7115 0.329 J 0.0362 J	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8 1,300 0.400 J 0.0470 J	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2 1,890 0.447 J 0.0247 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5				<0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6 1,090 0.394 J 0.0283 J 332	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5 1,680 0.380 J <0.0216 246	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3 756 0.358 J 0.0436 J 324	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580 26 715 0.329 J 0.0362 J 62.7 J	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8 1,300 0.400 J 0.0470 J 232	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2 1,890 0.447 J 0.0247 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-93-4 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0				< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6 1,090 0.394 J 0.0283 J 332 0.114 J	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5 1,680 0.380 J <0.0216 246 0.127 J	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3 756 0.358 J 0.0436 J 324 0.111 J	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580 26 715 0.329 J 0.0362 J 62.7 J 0.0873 J	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8 1,300 0.400 J 0.0470 J 232 0.132 J	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2 1,890 0.447 J 0.0247 J 225 0.159 J
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7439-92-1 7439-92-1 7439-95-4 7439-92-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	16 820 47 7.50 1720 450 2000 130 4 8.3			< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6 1,090 0.394 J 0.0283 J 332 0.114 J 24.6	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5 1,680 0.380 J <0.0216 246 0.127 J 27.6	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3 756 0.358 J 0.0436 J 324 0.111 J 21.5	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580 26 715 0.329 J 0.0362 J 62.7 J 0.0873 J 25.3	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8 1,300 0.400 J 0.0470 J 232 0.132 J 29.9	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2 1,890 0.447 J 0.0247 J 225 0.159 J 32.8
TOXAPHENE Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium	72-43-5 8001-35-2 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-93-4 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0		13 350 7.2 2.5 30 50 63 1600 30 3.9 2		< 0.017 16,400 0.123 J 6.23 52.5 0.706 0.0984 J 464 18.1 13.1 21.6 28,700 21.1 4,840 731 23.6 1,090 0.394 J 0.0283 J 332 0.114 J	<0.017 18,900 0.167 J 8.23 65.5 0.812 0.0676 J 350 22.6 20.7 30.9 33,900 21.2 5,750 996 27.5 1,680 0.380 J <0.0216 246 0.127 J	< 0.017 12,000 0.113 J 5.1 44.8 0.471 0.0678 J 516 13.8 7.8 13.7 18,200 20.7 3,150 443 15.3 756 0.358 J 0.0436 J 324 0.111 J	16,300 0.0998 J 5.51 64.7 0.873 0.120 J 386 20 18.1 18.9 34,900 30 5,630 1,580 26 715 0.329 J 0.0362 J 62.7 J 0.0873 J	18,900 0.162 J 7.06 86.1 0.868 0.148 J 529 18.7 16.4 24.9 26,500 26.3 5,940 1,170 E 32.8 1,300 0.400 J 0.0470 J 232 0.132 J	22,500 0.192 J 6.99 98.6 1.01 0.0870 J 448 26.6 14.8 25.4 34,900 E 18.5 6,660 923 E 31.2 1,890 0.447 J 0.0247 J 225 0.159 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	Oode	0	02,00000	Hoorachila					
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



			Unrestricted Use		OU3SB02 11/13/2018 OU3SB02-S-10.00- 10-12	OU3SB02 11/13/2018 OU3SB02-S-14.00- 14-16	OU3SB02 11/13/2018 OU3SB02-S-2.00-181113 2-4	OU3SB05 11/13/2018 OU3SB05-S-12.00- 12-14	OU3SB05 11/13/2018 OU3SB05-S-6.00-181113 6-8
Parameter Name	Parameter	375-6.8(b) & CP- 51 PGW	Soil Cleanup Objectives	375-6.8(b) & CP-51 Residential	REG	REG	REG	REG	REG
Semivolatile Organic Compounds	Code	SIFGW	Objectives	Residential					1
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			100	< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
4-Chloroaniline 4-Chlorophenyl phenyl ether	106-47-8	0.22	-	100	< 0.037	< 0.037	< 0.038	< 0.037	< 0.037
	7005-72-3		0.33	34	< 0.018	< 0.018	< 0.019	< 0.018	< 0.019
4-Methylphenol (p-Cresol)	106-44-5	0.33			< 0.022	< 0.022	< 0.023	< 0.022	< 0.022
4-Nitrophonal	100-01-6 100-02-7		<u>-</u>		< 0.073	< 0.073	< 0.076 < 0.19	< 0.074 < 0.18	< 0.074 < 0.19
4-Nitrophenol Acenaphthene	83-32-9	0.1 98	20	100	< 0.18 0.006 J	< 0.18 < 0.004	< 0.19	< 0.004	< 0.19
•	208-96-8	107	100	100	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Acenaphthylene Acetophenone	98-86-2					< 0.026	< 0.004		< 0.026
Anthracene	120-12-7	1000	100	100	< 0.026 0.07	< 0.026	< 0.027	< 0.026 < 0.004	< 0.026
Atrazine	1912-24-9				< 0.037	< 0.004	< 0.004	< 0.037	< 0.004
Benzaldehyde	100-52-7		-		< 0.037	< 0.073	< 0.076	< 0.037	< 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	< 0.007	< 0.004	< 0.004	< 0.004	< 0.007
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	< 0.007
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	375-6.8(b) & CP-	Unrestricted Use Soil Cleanup	375-6.8(b) & CP-51	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
Parameter Name	Parameter Code	51 PGW	Objectives	Residential	REG	KEG	KEO	KEO	KEG
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	< 0.00000 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	0.02	0.91	< 0.00019 D1	< 0.00019 D1			
							< 0.00019 D1		
beta BHC delta BHC	319-85-7	0.09	0.036	0.072	< 0.00048 D1	< 0.00048 D1	< 0.0005 D1		
	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 Arsenic	7440-36-0 7440-38-2	16	13	 16	0.282 J 6.19	0.284 J 10.8	0.303 J 7.72	0.3 J 5.5	0.329 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 Lead	7439-89-6 7439-92-1	450	63	2000 400	31,000 13.7	30,900 13.4	34,000 15.9	33,600 18	32,400 15.2
Magnesium	7439-92-1	450			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 Vanadium	7440-28-0 7440-62-2		-	100	0.141 24	0.152 24.4	0.159 28.1	0.139 23.7	0.135 23.8
Zinc	7440-62-2	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	(ma/ka)								

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 Sample Delivery Group (SDG)				OU3SB02 2011579	OU3SB05 2011579
_ab Sample ID		NYS TOGS	USEPA Tapwater	9909691	9909694
Sample Date	Parameter Code	GWQS	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-Trichloroethane (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	-		
•	10061-01-5			< 0.2	< 0.2
cis-1,3-Dichloropropene		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
Trichloroetherie (Trichloroethylerie) Trichlorofluoromethane (Freon 11)	75-69-4	5	-		< 0.2
Vinyl chloride (Chloroethene)	75-09-4	2	-	< 0.2	
Xylene (total)	75-01-4 1330-20-7	5	-	< 0.2 < 1	< 0.2 < 1

B-6 OU-3 Groundwater Data.xisx



Location ID				OU3SB02	OU3SB05
Sample Delivery Group (SDG)				2011579	2011579
₋ab Sample ID		NYS TOGS	USEPA Tapwater	9909691	9909694
Sample Date	Parameter Code	GWQS	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				1120	1,20
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	<u> </u>	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	100-01-0	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	1912-24-9		19		
Benzo(a)anthracene	56-55-3	0.002		< 3 0.3 J	< 4 < 0.1
Benzo(a)pyrene	50-32-8	0.002	0.025	0.3 J 0.4 J	< 0.1
Benzo(b)fluoranthene	205-99-2	0.002	0.025	0.4 J	
	191-24-2	0.002		0.3 J	< 0.1 < 0.1
Benzo(g,h,i)perylene Benzo(k)fluoranthene	207-08-9	0.002		0.3 J 0.2 J	
	111-91-1				< 0.1
bis(2-Chloroethoxy)methane		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 Carbazole	105-60-2	-	9900	< 6	< 6
	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
ndeno(1,2,3-cd)Pyrene	193-39-5	0.002	-	0.3 J	< 0.1
sophorone	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

B-6 OU-3 Groundwater Data.xisx



.ocation ID Sample Delivery Group (SDG) .ab Sample ID Sample Date	Parameter Code	NYS TOGS GWQS	USEPA Tapwater RSL 2019	OU3SB02 2011579 9909691 11/19/2018	OU3SB05 2011579 9909694 11/19/2018
Field Sample ID				OU3SB02-W-6.00-181119	OU3SB05-W-6.00-181119
Sample Purpose				REG	REG
Parameter Name				NEO .	
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
ron	7439-89-6	300		2,040,000	220,000
ron (Dissolved)	7439-89-6	300	-	25,600	24.5 J
Lead	7439-92-1	25	_	272	137
_ead (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
Fhallium	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
/anadium (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 microgramps 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

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Appendix C

Engineer's Estimate



tem 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
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$ 80,000	Technical Specifications
					Permit Equivalencies to be obtained; however, permitting may required in association with easements/Right Of Ways (I.e.
Specialty & Local Permits	\$25,000	Lump Sum	1	\$ 25 000	Railroad)
Implementation of Environmental Easement		Lump Sum	1	\$	Establishing the Off-Site Parcel as Restricted-Residential
. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$ 180,329	
Mobilization/Demobilization	10%	Lump Sum	1	\$ 66,345	Assumes mobilization of subcontractor labor, equipment and
Clearing and Grubbing Heavy Vegetation	\$12 500	Lump Sum	1	\$ 12.500	material to perform the work.
0 , 0				,	Includes Metes & Bounds, Existing Conditions, Excavation Lim
Surveying	\$2,200	Days	5	\$ 11,000	and Final Grade.
Security & Traffic Control		Lump Sum	1	\$ 15,000	
Utility Mark Out	\$1,800	Day	1	\$ 1,800	
Perimeter Erosion Controls		Linear Foot	1398	\$ 11,184	Use of straw wattle or silt fence.
Construction Entrance		Lump Sum	1	\$ 5,000	
Decontamination Pad/Material Staging Areas		Lump Sum	1	\$ 10,000	Forwards and district FOI of the adjacent will
Coordination with Railroad/Track Protection for Off-Site Area		Lump Sum	1	\$ 25,000	For work conducted within 50' of the adjacent raill. Assume 3 stations (upwind/downwind). Station includes PID at
Perimeter Air Monitor	\$6,000	Week	3	\$ 18,000	DustTrak
Dust and Odor Control	\$1,500	Week	3	\$ 4,500	Rental of Water Truck. Operator cost covered under dewatering
. 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 Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report/Soil Management Plan	\$60,000	Each	1	\$ 60,000	
Contractor Project Management		Lump Sum	1	\$ 68,230	
	.0,0				
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 (As			\$ 412,577	
		Frand 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

tem Description	QTY	Unit Rate	Units		Cost	Assumptions/Descriptions
esign / 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 Permit Equivalencies to be obtained; however, permittin may be required in association with easements/Right Of
Specialty & Local Permits	\$25,000	Lump Sum	1	\$	25,000	Ways (I.e. Railroad)
. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$	358,059	
Mobilization/Demobilization	10%	Lump Sum	1	\$	91,143	Assumes mobilization of subcontractor labor, equipmen
Clearing and Grubbing Heavy Vegetation		Lump Sum	1	\$	5,000	and material to perform the work.
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 condition 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 Prtoection for Off-Site Area		Lump Sum	1	\$		For work conducted within 50' of the adjacent raill.
Perimeter Air Monitor	\$6,000	Week	4	\$	24,000	Assume 3 stations (upwind/downwind). Station include 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.
Constituents and Remedial Actions				\$	1,692,853	
Excavation, Stockpiling and Loading of Soil	¢2E	Cubic yard	4820	\$	168,700	Based on previous quotes on similar projects
		Week		\$,	
Excavation Support - Trench Box or Slide Rail	\$10,000		2		20,000	To complete deep excavation adjacent to rail line.
Post Excavation Samples Waste Classification	\$75 \$500	Each Each	87 10	\$ \$	6,525 5,000	Assumes 1 per 500 cubic yards. Assumes standard tur
Furnish Clean Fill and Place	\$55	Tons	5999	\$	320 060	around time. Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place		Cubic yard	820	\$		Assumes 0.5' thick across all disturbed areas.
Seeding		Lump Sum	1	\$	6,000	Assumes 0.5 trick across all disturbed areas.
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
Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$	154.758	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$	60,000	
Contractor Project Management		Lump Sum	i	\$	94,758	
		Outstart :		•	0.000.070	
		Subtotal		\$ \$	2,360,670 472,134	
Ci	ontingency (As				, .	
		Frand 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.



temoval 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 147,500 Design / Work Plans / Permits Pre-Design Investigation \$30,000 Lump Sum 30.000 Inclusive of Remedial Action Work Plan, Contract Drawings 80,000 and Technical Specifications
Permit Equivalencies to be obtained; however, permitting Engineering & Design - Remedial Action Work Plan / Remedial Design \$80,000 Lump Sum \$ may be required in association with easements/Right Of 25,000 Ways (I.e. Railroad) Specialty & Local Permits \$25,000 Lump Sum \$ Implementation of Environmental Easement \$12,500 Lump Sum \$ 12.500 Establishing the Off-Site Parcel as Restricted-Residential 1. Support Activities (Env. Surveys/Monitoring, Permitting, etc.) 202,801 Assumes mobilization of subcontractor labor, equipment Mobilization/Demobilization 10% Lump Sum 1 \$ 78,385 and material to perform the work. Clearing and Grubbing Heavy Vegetation \$15,000 Lump Sum \$ 15.000 1 Includes Metes & Bounds, Existing Conditions, Excavation Surveying \$2,200 Davs 5 \$ 11.000 Limits and Final Grade. Security & Traffic Control \$15,000 Lump Sum \$ 15,000 300 Day \$8 Linear Foot Utility Mark Out \$1,800 1.800 Perimeter Erosion Controls 1452 11,616 Use of straw wattle or silt fence. \$5,000 Lump Sum Construction Entrance 5.000 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 10,000 Coordination with Railroad/Track Protection for Off-Site Area \$25,000 Lump Sum \$ 25,000 For work conducted within 50' of the adjacent raill. Assume 3 stations (upwind/downwind). Station includes Perimeter Air Monitor \$6,000 Week \$ 24,000 PID and DustTrak Rental of Water Truck. Operator cost covered under Dust and Odor Control Week \$ 6,000 \$1,500 dewatering. 2. Constituents and Remedial Actions 1.807.046 Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 182,350 5210 Based on previous quotes on similar projects Post Excavation Samples \$75 Each 104 \$ 7.800 Assumes 1 per 500 cubic yards. Assumes standard turn Waste Classification \$500 Each 11 \$ 5.500 around time. Furnish Clean Fill and Place Tons 6226 342,436 \$55 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 \$ 7,500 1 855,586 Assumed Hazardous Assumes conversion of 1.5 tons to 1 cubic yard, 85% Non-Transport & Disposal - Non-Hazardous Soil \$81 6643 \$ Assumes conversion of 1.5 tons to 1 cubic yard, 15% Transport & Disposal - Hazardous Waste \$230 Tons 1172 \$ 337,022 Hazardous 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout 141,724 Construction Completion Report/Final Engineering Report/Soil Management Plan \$60,000 Fach 60,000 10% Lump Sum 81.724 Contractor Project Management \$ 4. Maintenance and Monitoring 132,000 Annual Inspections - Soil Cover 75,000 Assumes Annually for 30 Years Each 30 Five Year Review Reporting \$7,500 Fach 6 45 000 Project Management (% of OM&M Costs) 10% Lump Sum 12,000 2,431,071

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)

Contingency (Assume 20%)

Grand Total

\$

486,214 **2,917,286**

- 2. 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 On-Site and Removal and Disposal with Institutional and Engineering Controls for Exceedances of Unrestricted SCOs Off-Site

Mobilization/Demobilization 10% Lump Sum 1 Clearing and Grubbing Heavy Vegetation \$15,000 Lump Sum 1 Surveying \$2,200 Days 5 Security & Traffic Control \$15,000 Lump Sum 1 Utility Mark Out \$1,800 Day 1 Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 Coordination with Rallroad/Track Protection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Each 104 Waste Classification		Cost	Assumptions/Descriptions
Engineering & Design - Remedial Action Work Plan / Remedial Design \$80,000 Lump Sum 1	\$	155,000	
Specialty & Local Permits \$25,000 Lump Sum 1	\$	50,000	
Specialty & Local Permits \$25,000 Lump Sum 1			Inclusive of Remedial Action Work Plan, Contract Drawings an
Support Activities (Env. Surveys/Monitoring, Permitting, etc.) Mobilization/Demobilization 10% Lump Sum 1 Clearing and Grubbing Heavy Vegetation \$15,000 Lump Sum 1 Surveying \$2,200 Days 5 Security & Traffic Control \$15,000 Lump Sum 1 Utility Mark Out \$1,800 Day 1 Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 Coordination with Railroad/Track Protection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dewatering \$7,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$500 Each 12 Furnish Clean Fill and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7367 Transport & Disposal - Non-Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report	\$	80,000	Technical Specifications
Support Activities (Env. Surveys/Monitoring, Permitting, etc.) Mobilization/Demobilization 10% Lump Sum 1 Clearing and Grubbing Heavy Vegetation \$15,000 Lump Sum 1 Surveying \$2,200 Days 5 Security & Traffic Control \$15,000 Lump Sum 1 Utility Mark Out \$1,800 Day 1 Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 Coordination with Railroad/Track Proection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dewatering \$7,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$500 Each 12 Furnish Clean Fill and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Non-Hazardous Waste \$230 Tons 1298			Permit Equivalencies to be obtained; however, permitting may
Support Activities (Env. Surveys/Monitoring, Permitting, etc.) Mobilization/Demobilization 10% Lump Sum 1 Clearing and Grubbing Heavy Vegetation \$15,000 Lump Sum 1 Surveying \$2,200 Days 5 Security & Traffic Control \$15,000 Lump Sum 1 Utility Mark Out \$1,800 Day 1 Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 1 Coordination with Railroad/Track Proection for Off-Site Area \$10,000 Lump Sum 1 Coordination with Railroad/Track Proection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 C. Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7367 Transport & Disposal - Non-Hazardous Waste \$85 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 \$86,000 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report			be required in association with easements/Right Of Ways (I.e.
Mobilization/Demobilization 10% Lump Sum 1 Clearing and Grubbing Heavy Vegetation \$15,000 Lump Sum 1 Surveying \$2,200 Days 5 Security & Traffic Control \$15,000 Lump Sum 1 Utility Mark Out \$1,800 Day 1 Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 Coordination with Rallroad/Track Protection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Each 104 Waste Classification	\$	25,000	Railroad)
Clearing and Grubbing Heavy Vegetation	\$	382,111	
Surveying \$2,200 Days 5	\$	102,532	Assumes mobilization of subcontractor labor, equipment and
Surveying \$2,200 Days 5	\$		material to perform the work.
Security & Traffic Control \$15,000 Lump Sum 1	Ф	15,000	Includes Metes & Bounds, Existing Conditions, Excavation
Security & Traffic Control \$15,000 Lump Sum 1 Utility Mark Out \$1,800 Day 1	\$	11 000	Limits and Final Grade. Assumes 1 day per week during
Utility Mark Out \$1,800 Day 1 Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 Coordination with Railroad/Track Protection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 12 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum <t< td=""><td>Ψ</td><td>11,000</td><td>excavation plus 6 days for existing conditions and final grade.</td></t<>	Ψ	11,000	excavation plus 6 days for existing conditions and final grade.
Utility Mark Out \$1,800 Day 1 Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 Coordination with Railroad/Track Protection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 12 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum <t< td=""><td>\$</td><td>15,000</td><td>excavation plus o days for existing conditions and final grade.</td></t<>	\$	15,000	excavation plus o days for existing conditions and final grade.
Perimeter Erosion Controls - Silt Fence/Straw Wattle \$8 Linear Foot 1472 Construction Entrance \$5,000 Lump Sum 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 Coordination with Railroad/Track Prtoection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$500 Each 12 Furnish Clean Fill and Place \$65 Cubic yard 1059 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confir	\$	1,800	
Construction Entrance \$5,000 Lump Sum 1 1 Decontamination Pad/Material Staging Areas \$10,000 Lump Sum 1 1 Coordination with Railroad/Track Protection for Off-Site Area \$150,000 Lump Sum 1 1 Perimeter Air Monitor \$6,000 Week 4 4 Dewatering \$7,500 Week 4 4 Dust and Odor Control \$1,500 Week 4 4 **Constituents and Remedial Actions *** **Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 5770 **Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 2 **Post Excavation Samples \$75 Each 104 104 **Waste Classification \$500 Each 12 12 **Furnish Clean Fill and Place \$55 Tons 7066 7066 **Furnish Topsoil and Place \$65 Cubic yard 1059 1059 **Seeding \$7,500 Lump Sum 1 1 **Transport & Disposal - Non-Hazardous \$81 Tons 7357 **Transport & Disposal - Hazardous Waste \$230 Tons 1298 ***Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout \$60,000 Each 1 1	\$		Use of straw wattle or silt fence.
Coordination with Railroad/Track Prtoection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpilling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$500 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout \$60,000 Each 1	\$	5,000	
Coordination with Railroad/Track Prtoection for Off-Site Area \$150,000 Lump Sum 1 Perimeter Air Monitor \$6,000 Week 4 Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$500 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 8. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout \$60,000 Each 1	\$	10,000	
Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	150,000	For work conducted within 50' of the adjacent raill.
Dewatering \$7,500 Week 4 Dust and Odor Control \$1,500 Week 4 Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	24.000	Assume 3 stations (upwind/downwind). Station includes PID
Dust and Odor Control \$1,500 Week 4 2. Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$500 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	φ	24,000	and DustTrak
Dust and Odor Control \$1,500 Week 4	\$	30.000	Assumes construction dewatering sumps and operation during
Constituents and Remedial Actions \$35 Cubic yard 5770	•		construction working hours.
Excavation, Stockpiling and Loading of Soil \$35 Cubic yard 5770 Excavation Support - Trench Box or Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	6,000	Rental of Water Truck. Operator cost covered under dewatering.
Excavation, Stockpiling and Loading of Soil \$35 Cubic yard \$770			donatoring.
Excavation Support - Trench Box of Slide Rail \$10,000 Week 2 Post Excavation Samples \$75 Each 104 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	2,021,534	
Post Excavation Samples \$75 Each 104 Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	201,950	Based on previous quotes on similar projects
Waste Classification \$50 Each 12 Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	20,000	To complete deep excavation adjacent to rail line.
Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	7,800	
Furnish Clean Fill and Place \$55 Tons 7066 Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	6,000	Assumes 1 per 500 cubic yards. Assumes standard turn arour
Furnish Topsoil and Place \$65 Cubic yard 1059 Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Oversight, Confirmation Sampling Report \$60,000 Each 1			time.
Seeding \$7,500 Lump Sum 1 Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout 560,000 Each 1	\$		Assumes conversion of 1.5 tons to 1 cubic yard.
Transport & Disposal - Non-Hazardous \$81 Tons 7357 Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$		Assumes 0.5' thick across all disturbed areas.
Transport & Disposal - Hazardous Waste \$230 Tons 1298 3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	7,500	Assumes conversion of 1.5 tons to 1 cubic yard, 85% Non-
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	947,549	Hazardous
3. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report \$60,000 Each 1			Assumes conversion of 1.5 tons to 1 cubic yard, 15%
Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	373,247	Hazardous
Construction Completion Report/Final Engineering Report \$60,000 Each 1	\$	168.285	
	\$	60,000	
Contractor Project Management 10% Lump Sum 1	\$	108,285	
Subtotal	\$	2,726,930	
Contingency (Assume 20%)	\$ \$	545,386 3,272,316	

- 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.





tem 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 Inclusive of Remedial Action Work Plan, Contract Drawings and
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000	Lump Sum	1	\$	80,000	Technical Specifications Permit Equivalencies to be obtained; however, permitting may be
Implementation of Environmental Easement	\$25,000	Lump Sum	1	\$	25,000	required in association with easements/Right Of Ways (I.e. Railroa
. Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$	183,518	
Mobilization/Demobilization	10%	Lump Sum	1	\$	86,209	Assumes mobilization of subcontractor labor, equipment and mate to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	3.3	\$	16,374	to perform the work.
Surveying	\$2,200	Days	5	\$	11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limits Final Grade.
Utility Mark Out	\$1,800	Dav	1	\$	1,800	Final Grade.
Perimeter Erosion Controls		Linear Foot	2892	\$		Use of straw wattle or silt fence.
Construction Entrance		Lump Sum	1	\$	5,000	
Decontamination Pad/Material Staging Areas		Lump Sum	1	\$	10,000	
Perimeter Air Monitor	\$6,000	Week	4	\$	24,000	Assume 3 stations (upwind/downwind). Station includes PID and
Dust and Odor Control	\$1,500	Week	4	\$	6,000	Rental of Water Truck. Operator cost covered under dewatering.
. 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	\$		For Constiuents of Concern Only
Waste Classification	\$500	Each	8	\$	4,012	Assumes 1 per 500 cubic yards. Assumes standard turn around ti
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 cubi yard.
Performance Monitoring	\$250	Each	9	\$	2.250	Assumes 1 per 100 cubic yards
Furnish Clean Fill and Place	\$55	Tons	2709	Š		Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place		Cubic yard	2206	\$		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
B. 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	·
Ionitored Natural Attenuation						
om Docarintian	OTY	Unit Date	Unite		Cost	AccumptionalDescriptions
em Description esign / Work Plans / Permits	QIY	Unit Rate	Units	\$	85,000	Assumptions/Descriptions
inal Engineering Report	960,000	Lump Sum	1	\$	60,000	
nplementation of Groundwater Use Restriction		Lump Sum	1	\$	25,000	
Maintenance, Monitoring, Permits Closeout				\$	915,915	
-						Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annu
Ionitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	39	\$		Year 5-30
INA- Laboratory	\$7,150	Event	39	\$	278,850	A
unual MNA Reporting	\$10,000	Year	30	\$		Assumes 30 Years Assumes 30 Years
rive Year Review Reporting Project Management (% of OM&M Costs)	\$15,000 10%	Each Lump Sum	6 1	\$ \$		Assumes 30 Years Assumes 30 Years
, , , , , , , , , , , , , , , , , , , ,				Ė		
			total - Soil		2,215,261	
	:	Subtotal - Gr			1,000,915	
		tingency (As: Grand Total	sume 20%)	\$ \$	643,235 3,859,411	

Notes:

- 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.





em Description	QTY	Unit Rate	Units		Cost	Assumptions/Descriptions
esign / Work Plans / Permits				\$	185,000	
				_		Inclusive of Remedial Action Work Plan, Contract Drawings and
Pre-Design Investigation	\$100,000	Lump Sum	1	\$	100,000	Technical Specifications Inclusive of Remedial Action Work Plan, Contract Drawings and
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$	60,000	Technical Specifications
Engineering & Design - Nomedian Notion Work Harry Nomedian Design	φου,σσσ	Lump Cum		Ψ	00,000	Permit Equivalencies to be obtained; however, permitting may be
Implementation of Environmental Easement	\$25,000	Lump Sum	1	\$	25,000	required in association with easements/Right Of Ways (I.e. Railroa
Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$	177.745	
				•	, .	Assumes mobilization of subcontractor labor, equipment and mate
Mobilization/Demobilization	10%	Lump Sum	1	\$	80,435	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
Utility Mark Out	\$1,800	,	1	\$	1,800	Final Grade.
Perimeter Erosion Controls		Linear Foot	2892	\$		Use of straw wattle or silt fence.
Construction Entrance		Lump Sum	1	\$	5,000	355 S. S. S. W. Wattle Of Silt forioc.
Decontamination Pad/Material Staging Areas		Lump Sum	1	\$	10,000	
Perimeter Air Monitor	\$6,000		4	\$	24.000	Assume 3 stations (upwind/downwind). Station includes PID and
Dust and Odor Control	\$1,500		4	\$		Rental of Water Truck. Operator cost covered under dewatering.
Countitionate and Demodial Actions					4 072 400	
Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil	625	Cubic yard	6262	\$	1,873,169	Based on previous quotes on similar projects
Post Excavation Sampling	\$25 \$75		211	\$		For Constiuents of Concern Only
Waste Classification	\$500		13	\$		Assumes 1 per 500 cubic yards. Assumes standard turn around
Furnish Clean Fill and Place	\$55		6084	\$		Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Topsoil and Place		Cubic yard	2206	\$		Assumes 0.5' thick across all disturbed areas.
Seeding	\$2.500		2.7	\$	6.837	7.00diff.00 0.0 tillok dorodo dili diotarbod diodo.
Transport & Disposal - Non-Hazardous	\$81	Tons	9393	\$	1,209,754	Assumes conversion of 1.5 tons to 1 cubic yard
Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$	264,116	
Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$	60,000	
Contractor Project Management		Lump Sum	1.0	\$	84,116	
Annual Inspections - Soil Cover	\$2,500		30	\$		Assumes Annually for 30 Years
Five Year Review Reporting	\$7,500		6	\$	45,000	Accounted Authority for the Federal
onitored Natural Attenuation						
Dilitored Natural Attenuation						
n. B dudu	a=14	Hall Bar			0.11	A
em Description esign / Work Plans / Permits	QTY	Unit Rate	Units	\$	Cost 85,000	Assumptions/Descriptions
nal Engineering Report	©CO 000	Lump Sum	1	\$	60,000	
nal Engineering Report splementation of Groundwater Use Restriction		Lump Sum	1	\$	25,000	
	1-0,000					
laintenance, Monitoring, Permits Closeout				\$	915,915	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual
onitored Natural Attenuation (MNA) - Labor & Expenses	\$4,200	Event	39	\$	163,800	Year 5-30
NA- Laboratory	\$7,150		39	\$	278,850	****
nnual MNA Reporting	\$10,000		30	\$		Assumes 30 Years
	\$15,000	Each	6	\$	90,000	Assumes 30 Years
ve Year Review Reporting	100/	Lump Sum	1	\$	83,265	Assumes 30 Years
	10%	Earnip Garri				
ve real review repoiling roject Management (% of OM&M Costs)	10%					
		Sul	ototal - Soi		2,500,030	
			oundwate	r \$	2,500,030 1,000,915 700,189	

- 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	QTT OHITRAGE	Offics	\$	320,000	Assumptions/Descriptions
Pre-Design Investigation	\$200,000 Lump Sum	1	\$	•	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	Limits and Final Grade.
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
Decontamination Pad/Material Staging Areas	\$30,000 Lump Sum	1	\$	30,000	maintenance
Perimeter Air Monitor	\$6.000 Week	77	\$	462,000	Assume 3 stations (upwind/downwind). Station includes PID
Dust and Odor Control	\$1,500 Week	77	\$	115,500	and DustTrak Rental of Water Truck. Operator cost covered under
Dast and Oddi Control	ψ1,000 WCCK		Ψ	110,000	dewatering.
2. Constituents and Remedial Actions			\$	51,192,170	
Excavation, Stockpiling and Loading of Soil	\$25 Cubic yard \$3,500 Week	169500 9	\$ \$	4,237,500	
Excavation Support - Trench Box or Equivalent Post Excavation Sampling	\$3,500 Week \$75 Each	2940	\$	31,500 220,500	To complete 6 ft deep excavation For Constiuents 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 Seeding	\$65 Cubic yard \$2,500 Acre	37300 46.2	\$ \$	2,424,500 115,570	Assumes 0.5' thick across all disturbed areas.
Transport & Disposal - Non-Hazardous	\$2,500 Acre \$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 Implementation of Groundwater Use Restriction	\$60,000 Lump Sum \$25,000 Lump Sum	1 1	\$ \$	60,000 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	Allida Todi 5 50
Annual MNA Reporting	\$10,000 Year	30	\$		Assumes 30 Years
Five Year Review Reporting	\$15,000 Each	6	\$		Assumes 30 Years
Project Management (% of OM&M Costs)	10% Lump Sum	1	\$	83,265	Assumes 30 Years
		ıbtotal - Soil		56,928,633	
		Froundwater		1,000,915 11,585,910	
	Contingency (A Grand Total) \$ \$	69,515,457	
	Grand Total		Ψ	00,010,407	

- 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.





n Description	QTY Unit Rate	Units		Cost	Assumptions/Descriptions
ign / Work Plans / Permits			\$	265,000	
re-Design Investigation	\$160,000 Lump Sum	1	\$	160,000	Inclusive of Remedial Action Work Plan, Contract Drawings and Technical Specifications Inclusive of Remedial Action Work Plan, Contract Drawings and
ngineering & Design - Remedial Action Work Plan / Remedial Design	\$80,000 Lump Sum	1	\$	80,000	Technical Specifications Permit Equivalencies to be obtained; however, permitting may b
plementation of Environmental Easement	\$25,000 Lump Sum	1	\$	25,000	required in association with easements/Right Of Ways (I.e. Railn
upport Activities (Env. Surveys/Monitoring, Permitting, etc.)			\$	183,513	A second in the second
obilization/Demobilization	10% Lump Sum	1	\$	86,204	Assumes mobilization of subcontractor labor, equipment and ma to perform the work.
learing and Grubbing Heavy Vegetation	\$5,000 Acre	3.3	\$	16,374	Includes Metes & Bounds, Existing Conditions, Excavation Limit
urveying	\$2,200 Days	5	\$	11,000	Final Grade.
tility Mark Out erimeter Erosion Controls	\$1,800 Day \$8 Linear Foot	1 2892	\$ \$	1,800	Use of straw wattle or silt fence.
onstruction Entrance	\$5,000 Lump Sum	1	\$	5,000	Ose of straw wattie of slit ferice.
econtamination Pad/Material Staging Areas	\$10,000 Lump Sum	1	\$	10,000	
erimeter Air Monitor	\$6,000 Week	4	\$	24,000	
ust and Odor Control	\$1,500 Week	4	\$	6,000	Rental of Water Truck. Operator cost covered under dewatering
onstituents and Remedial Actions			\$	1,496,225	
cavation, Stockpiling and Loading of Soil	\$25 Cubic yard	4012	\$		Based on previous quotes on similar projects
st Excavation Sampling	\$75 Each	155	\$		For Constiuents of Concern Only
aste Classification	\$500 Each Cubic	8	\$		Assumes 1 per 500 cubic yards. Assumes standard turn around
Situ Soil Mixing - Mixing Head - Initial Treatment	\$45 Yards	2250	\$	101,233	
rsulfate Amendment Concentration (2% by weight)	\$3,000 Tons	67	\$	202,467	Assumes 2% by weight. Assumes conversion of 1.5 tons to 1 cu yard.
rformance Monitoring	\$250 Each	9	\$	2,250	
rnish Clean Fill and Place rnish Topsoil and Place	\$55 Tons \$65 Cubic yard	2709 2206	\$ \$	149,004	Assumes conversion of 1.5 tons to 1 cubic yard. Assumes 0.5' thick across all disturbed areas.
reding	\$2,500 Acre	2.7	\$	6,837	Assumes 0.5 thick across all disturbed areas.
ansport & Disposal - Non-Hazardous	\$81 Tons	6018	\$		Assumes conversion of 1.5 tons to 1 cubic yard
Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout			\$	270,461	
onstruction Completion Report/Final Engineering Report	\$60,000 Each	1	\$	60,000	
ontractor Project Management	10% Lump Sum	1.0	\$	90,461	
nnual Inspections - Soil Cover ve Year Review Reporting	\$2,500 Each \$7.500 Each	30 6	\$ \$	75,000 45,000	Assumes Annually for 30 Years
itu Bioremediation				-,	
ill biolemediation					
n Description	QTY Unit Rate	Units		Cost	Assumptions/Descriptions
sign / Work Plans / Permits			\$	132,500	
gineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000 Lump Sum \$60,000 Lump Sum	1	\$ \$		Inclusive of Remedial Action Work Plan, HASP, SOPs Includes Site Management Plan (SMP)
plementation of Groundwater Use Restriction	\$12,500 Lump Sum	1	\$	12,500	includes Site Management Plan (SMP)
upport Activities (Env. Surveys/Monitoring, Permitting, etc.)			\$	13,500	Land clearing activities to set up decon areas and material stage
obilization/Demobilization - General	\$3,500 Lump Sum	1	\$	3.500	
il Erosion and Sedimentation Controls (Silt Fence, BMPs)	\$2,500 Lump Sum	1	\$	2,500	
uipment /Material Staging Areas/Decon Pads	\$7,500 Lump Sum	1	\$	7,500	Established during first event and left in-situ until final event.
onstituents and Remedial Actions			\$	511,500	
			\$	37 500	Includes well, well vault and associated appurtenances.
obilization/Demobilization - Injection Event	\$7,500 Event	5			
ility Locate	\$1,800 Event	5	\$	9,000	
obilization/Demobilization - Injection Event ility Locate jection Services					
ection Services Igineer - Labor & Expenses	\$1,800 Event \$50,000 Event \$25,000 Event	5	\$	9,000 250,000 125,000	event Assumes 2 staff members at 10 hours per day, vehicle rental ar equipment. Assumes 10 days per event.
cition Services gineer - Labor & Expenses distrate - Emulsified Vegetable Oil	\$1,800 Event \$50,000 Event \$25,000 Event	5 5 5	\$ \$	9,000 250,000 125,000 90,000	event Assumes 2 staff members at 10 hours per day, vehicle rental ar
ection Services gineer - Labor & Expenses bistrate - Emulsified Vegetable Oil laintenance, Monitoring, Permits Closeout	\$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event	5 5 5	\$ \$ \$ \$	9,000 250,000 125,000 90,000 380,215	event Assumes 2 staff members at 10 hours per day, vehicle rental ar equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Annual Year 3
ection Services ection Services ngineer - Labor & Expenses ubstrate - Emulsified Vegetable Oil Maintenance, Monitoring, Permits Closeout onitored Natural Attenuation (MNA) - Labor & Expenses	\$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event	5 5 5 5	\$ \$ \$ \$	9,000 250,000 125,000 90,000 380,215 79,800	event Assumes 2 staff members at 10 hours per day, vehicle rental ar equipment. Assumes 10 days per event.
ility Locate section Services signeer - Labor & Expenses substrate - Emulsified Vegetable Oil faintenance, Monitoring, Permits Closeout spinitored Natural Attenuation (MNA) - Labor & Expenses NA- Laboratory	\$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event \$7,150 Event	5 5 5 5 19	\$ \$ \$ \$ \$ \$	9,000 250,000 125,000 90,000 380,215 79,800 135,850	event Assumes 2 staff members at 10 hours per day, vehicle rental ar equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Ann Year 5-10
lity Locate ection Services gineer - Labor & Expenses bstrate - Emulsified Vegetable Oil laintenance, Monitoring, Permits Closeout pointored Natural Attenuation (MNA) - Labor & Expenses VA- Laboratory unual MNA Reporting	\$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event \$7,150 Event \$10,000 Year	5 5 5 5 19 19	\$ \$ \$ \$ \$ \$ \$	9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000	event Assumes 2 staff members at 10 hours per day, vehicle rental ar equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and An Year 5-10 Assumes 10 Years
lity Locate section Services gineer - Labor & Expenses bstrate - Emulsified Vegetable Oil aintenance, Monitoring, Permits Closeout nitored Natural Attenuation (MNA) - Labor & Expenses IA- Laboratory	\$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event \$7,150 Event	5 5 5 5 19	\$ \$ \$ \$ \$ \$	9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000 30,000	event Assumes 2 staff members at 10 hours per day, vehicle rental ar equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and An Year 5-10
lity Locate ection Services gineer - Labor & Expenses bstrate - Emulsified Vegetable Oil laintenance, Monitoring, Permits Closeout initored Natural Attenuation (MNA) - Labor & Expenses IA- Laboratory nual MNA Reporting e Year Review Reporting	\$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event \$7,150 Event \$10,000 Year \$15,000 Each 10% Lump Sum	5 5 5 5 19 19 10 2 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000 30,000 34,565	event Assumes 2 staff members at 10 hours per day, vehicle rental ar equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and An Year 5-10 Assumes 10 Years Assumes 10 Years
ity Locate sction Services gineer - Labor & Expenses strate - Emulsified Vegetable Oil aintenance, Monitoring, Permits Closeout nitored Natural Attenuation (MNA) - Labor & Expenses IA- Laboratory ual MNA Reporting e Year Review Reporting	\$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event \$7,150 Event \$10,000 Year \$15,000 Each 10% Lump Sum	5 5 5 5 19 19 10 2 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000 30,000	event Assumes 2 staff members at 10 hours per day, vehicle rental at equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and An Year 5-10 Assumes 10 Years Assumes 10 Years

- 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.





emoval and Disposal for Exceedances of Restricted-Residential SCOs					
em Description	QTY Unit Rate	Units		Cost	Assumptions/Descriptions
sign / 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 Inclusive of Remedial Action Work Plan, Contract Drawings and
ingineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000 Lump Sum	1	\$	60,000	Technical Specifications
mplementation 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. Railro
Support Activities (Env. Surveys/Monitoring, Permitting, etc.)			\$	177,745	
Mobilization/Demobilization	10% Lump Sum	1	\$	80,435	Assumes mobilization of subcontractor labor, equipment and mat to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000 Acre	3.3	\$	16,374	to perform the work.
Surveying	\$2,200 Days	5	\$	11,000	Includes Metes & Bounds, Existing Conditions, Excavation Limit
Jtility Mark Out	\$1,800 Day	1	\$	1,800	Final Grade.
Perimeter Erosion Controls	\$8 Linear Foot	2892	\$		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 Dust and Odor Control	\$6,000 Week \$1,500 Week	4 4	\$ \$	24,000 6,000	Assume 3 stations (upwind/downwind). Station includes PID and Rental of Water Truck. Operator cost covered under dewatering
Constituents and Remedial Actions			\$	1,873,169	
excavation, Stockpiling and Loading of Soil	\$25 Cubic yard	6262	\$		Based on previous quotes on similar projects
Post Excavation Sampling	\$75 Each	211	\$		For Constiuents of Concern Only
Vaste Classification	\$500 Each	13	\$		Assumes 1 per 500 cubic yards. Assumes standard turn around Assumes conversion of 1.5 tons to 1 cubic yard.
Furnish Clean Fill and Place Furnish Topsoil and Place	\$55 Tons \$65 Cubic yard	6084 2206	\$ \$		Assumes conversion of 1.5 tons to 1 cubic yard. Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500 Acre	2.7	\$	6,837	Assumes 0.5 thick across all disturbed areas.
ransport & Disposal - Non-Hazardous	\$81 Tons	9393	\$		Assumes conversion of 1.5 tons to 1 cubic yard
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 Five Year Review Reporting	\$2,500 Each \$7,500 Each	30 6	\$ \$	75,000 45,000	Assumes Annually for 30 Years
Situ Bioremediation					
em Description	QTY Unit Rate	Units		Cost	Assumptions/Descriptions
esign / Work Plans / Permits			\$	132,500	
ngineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000 Lump Sum	1	\$		Inclusive of Remedial Action Work Plan, HASP, SOPs
Construction Completion Report/Final Engineering Report Implementation of Groundwater Use Restriction	\$60,000 Lump Sum \$12,500 Lump Sum	1 1	\$ \$	60,000 12,500	Includes Site Management Plan (SMP)
	\$12,500 Lump Sum	ı	Ė		
Support Activities (Env. Surveys/Monitoring, Permitting, etc.)			\$	13,500	Land clearing activities to set up decon areas and material stag
lobilization/Demobilization - General	\$3,500 Lump Sum	1	\$	3,500	
ioil Erosion and Sedimentation Controls (Silt Fence, BMPs)	\$2,500 Lump Sum	1	\$	2,500	
quipment /Material Staging Areas/Decon Pads			\$		Established during first event and left in-situ until final event.
quipment/Material otaging /neas/becon r aus	\$7,500 Lump Sum	1	Ť	7,000	
Constituents and Remedial Actions			\$	511,500	
Constituents and Remedial Actions //obilization/Demobilization - Injection Event	\$7,500 Lump Sum \$7,500 Event \$1,800 Event	5 5		511,500	Includes well, well vault and associated appurtenances.
Constituents and Remedial Actions Mobilization/Demobilization - Injection Event Jillity Locate	\$7,500 Event \$1,800 Event	5	\$	511,500 37,500	Assumes use of licensed driller in New York. Assumes 10 days p
Constituents and Remedial Actions Mobilization/Demobilization - Injection Event Jtility Locate njection Services	\$7,500 Event \$1,800 Event \$50,000 Event	5 5 5	\$ \$ \$	511,500 37,500 9,000 250,000	Assumes use of licensed driller in New York. Assumes 10 days pevent Assumes 2 staff members at 10 hours per day, vehicle rental an
Constituents and Remedial Actions Injection Event Itility Locate Injection Services Ingineer - Labor & Expenses	\$7,500 Event \$1,800 Event	5 5	\$ \$	511,500 37,500 9,000 250,000 125,000	Assumes use of licensed driller in New York. Assumes 10 days pevent
Constituents and Remedial Actions //obilization/Demobilization - Injection Event //tility Locate //piction Services //fingineer - Labor & Expenses Substrate - Emulsified Vegetable Oil	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event	5 5 5	\$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000	Assumes use of licensed driller in New York. Assumes 10 days pevent Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs.
Constituents and Remedial Actions //obilization/Demobilization - Injection Event //dility Locate //piction Services Engineer - Labor & Expenses //published - Emulsified Vegetable Oil Maintenance, Monitoring, Permits Closeout	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event	5 5 5 5 5	\$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215	Assumes use of licensed driller in New York. Assumes 10 days event Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Ann
Constituents and Remedial Actions Mobilization/Demobilization - Injection Event Itility Locate njection Services Engineer - Labor & Expenses Substrate - Emulsified Vegetable Oil Maintenance, Monitoring, Permits Closeout Monitored Natural Attenuation (MNA) - Labor & Expenses	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event	5 5 5	\$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215	Assumes use of licensed driller in New York. Assumes 10 days revent Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event.
Constituents and Remedial Actions Albilitzation/Demobilization - Injection Event Itility Locate Injection Services Engineer - Labor & Expenses Substrate - Emulsified Vegetable Oil Maintenance, Monitoring, Permits Closeout Annitored Natural Attenuation (MNA) - Labor & Expenses INA- Laboratory	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event	5 5 5 5 5 5	\$ \$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215 79,800 135,850	Assumes use of licensed driller in New York. Assumes 10 days revent Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Ann
Constituents and Remedial Actions //obilization/Demobilization - Injection Event //fility Locate njection Services Engineer - Labor & Expenses Substrate - Emulsified Vegetable Oil Maintenance, Monitoring, Permits Closeout //onitored Natural Attenuation (MNA) - Labor & Expenses //NA- Laboratory //nnual MNA Reporting //we Year Review Reporting	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event \$7,150 Event \$10,000 Yesent \$15,000 Each	5 5 5 5 5 5 19 19 10 2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000 30,000	Assumes use of licensed driller in New York. Assumes 10 days pevent Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Ann Year 5-10 Assumes 10 Years Assumes 10 Years
Constituents and Remedial Actions Abbilization/Demobilization - Injection Event Itility Locate Injection Services Injectio	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$4,200 Event \$7,150 Event \$10,000 Year	5 5 5 5 5 5 19 19	\$ \$ \$ \$ \$ \$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000 30,000	Assumes use of licensed driller in New York. Assumes 10 days event Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Anr Year 5-10 Assumes 10 Years
Constituents and Remedial Actions Allobilization/Demobilization - Injection Event Itility Locate njection Services Injection Services Injecti	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$1,150 Event \$10,000 Year \$15,000 Each 10% Lump Sum	5 5 5 5 5 5 19 19 10 2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000 30,000	Assumes use of licensed driller in New York. Assumes 10 days pevent Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Ann Year 5-10 Assumes 10 Years Assumes 10 Years
Constituents and Remedial Actions lobilization/Demobilization - Injection Event litility Locate njection Services Ingineer - Labor & Expenses substrate - Emulsified Vegetable Oil Maintenance, Monitoring, Permits Closeout Ionitored Natural Attenuation (MNA) - Labor & Expenses INA- Laboratory Innual MNA Reporting Inve Year Review Reporting	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$1,150 Event \$10,000 Year \$15,000 Each 10% Lump Sum	5 5 5 5 5 5 19 19 10 2 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215 79,800 105,850 100,000 30,000 34,565 2,500,030 1,037,715	Assumes use of licensed driller in New York. Assumes 10 days pevent Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Ann Year 5-10 Assumes 10 Years Assumes 10 Years
Constituents and Remedial Actions lobilization/Demobilization - Injection Event litility Locate njection Services Ingineer - Labor & Expenses substrate - Emulsified Vegetable Oil Maintenance, Monitoring, Permits Closeout Ionitored Natural Attenuation (MNA) - Labor & Expenses INA- Laboratory Innual MNA Reporting Inve Year Review Reporting	\$7,500 Event \$1,800 Event \$50,000 Event \$25,000 Event \$18,000 Event \$1,000 Event \$7,150 Event \$10,000 Year \$15,000 Each 10% Lump Sum Subtotal - Gr Contingency (As	5 5 5 5 5 5 19 19 10 2 2 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	511,500 37,500 9,000 250,000 125,000 90,000 380,215 79,800 135,850 100,000 30,000 34,565	Assumes use of licensed driller in New York. Assumes 10 days pevent Assumes 2 staff members at 10 hours per day, vehicle rental an equipment. Assumes 10 days per event. Assumes 3% solution strength. Includes tax and delivery costs. Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and Ann Year 5-10 Assumes 10 Years Assumes 10 Years

- 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.





- No. of the Control	0771	Heli Ber	11.20			A constitution of the contract of
m Description esign / Work Plans / Permits	QTY	Unit Rate	Units	\$	Cost 320.000	Assumptions/Descriptions
Sign / Work Flans / Fernits				φ	,	Inclusive of Remedial Action Work Plan, Contract Drawings
Pre-Design Investigation	\$200,000	Lump Sum	1	\$	200,000	Technical Specifications Inclusive of Remedial Action Work Plan, Contract Drawings
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$120,000	Lump Sum	1	\$	120,000	Technical Specifications
Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$	3,192,714	
Mobilization/Demobilization	100/	Lump Sum	1	\$	1,947,335	Assumes mobilization of subcontractor labor, equipment and
		•			276,797	material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000	Acre	55.4	\$	276,797	Includes Metes & Bounds, Existing Conditions, Excavation
Surveying	\$2,200	Days	77	\$	169,237	Limits and Final Grade.
Itility Mark Out	\$1,800	Day	1	\$	1,800	
erimeter 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
econtamination Pad/Material Staging Areas		Lump Sum	1	\$	30,000	maintenance
erimeter Air Monitor	\$6,000	Week	77	\$	462,000	Assume 3 stations (upwind/downwind). Station includes PI
enneter All Worldon	\$0,000	WEEK	"	Ψ	402,000	and DustTrak Reptal of Water Truck Operator cost sovered under
ust and Odor Control	\$1,500	Week	77	\$	115,500	Rental of Water Truck. Operator cost covered under dewatering.
Constituents and Remedial Actions				\$	51,192,170	
xcavation, Stockpiling and Loading of Soil		Cubic yard	169500	\$	4,237,500	Based on previous quotes on similar projects
xcavation Support - Trench Box or Equivalent	\$3,500	Week	9	\$	31,500	To complete 6 ft deep excavation
ost Excavation Sampling	\$75	Each	2940	\$	220,500	For Constiuents of Concern Only Assumes 1 per 500 cubic yards. Assumes standard turn as
aste Classification	\$500	Each	339	\$	169,500	time.
dditional 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 exceed in post excavation sampling
urnish Clean Fill and Place	\$55	Tons	198300	\$	10,906,500	Assumes conversion of 1.5 tons to 1 cubic yard.
urnish Topsoil and Place		Cubic yard	37300	\$	2,424,500	Assumes 0.5' thick across all disturbed areas.
ieeding iransport & Disposal - Non-Hazardous	\$2,500 \$81	Acre Tons	46.2 254250	\$ \$	115,570 32,747,400	Assumes conversion of 1.5 tons to 1 cubic yard.
	72					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout Construction Completion Report/Final Engineering Report	\$60,000	Each	1	\$	2,223,748 60,000	
Contractor Project Management		Lump Sum	1.0	\$	2,163,748	
Situ Bioremediation						
n Description	QTY	Unit Rate	Units		Cost	Assumptions/Descriptions
sign / Work Plans / Permits				\$	132,500	Lad of the Committee West Plan 1140P 00P
ngineering & Design - Remedial Action Work Plan / Remedial Design construction Completion Report/Final Engineering Report		Lump Sum Lump Sum	1 1	\$ \$		Inclusive of Remedial Action Work Plan, HASP, SOPs Includes Site Management Plan (SMP)
nplementation of Groundwater Use Restriction		Lump Sum	1	\$	12,500	morades one management harr (own)
Command Activities (Fav. Command/Manitorius Danwitting etc.)				\$	42 500	
Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$	13,500	Land clearing activities to set up decon areas and materia
obilization/Demobilization - General		Lump Sum	1	\$		staging areas
oil Erosion and Sedimentation Controls (Silt Fence, BMPs)		Lump Sum	1 1	\$ \$	2,500	Fatablished desire first accept and left in air contil first accept
quipment /Material Staging Areas/Decon Pads	\$7,500	Lump Sum	'	Ф	7,500	Established during first event and left in-situ until final even
Constituents and Remedial Actions				\$	511,500	
lobilization/Demobilization - Injection Event tility Locate	\$7,500 \$1,800	Event Event	5 5	\$ \$	37,500 9,000	Includes well, well vault and associated appurtenances.
unity Locate	φ1,000	Lveiii	3	Ψ	9,000	Assumes use of licensed driller in New York. Assumes 10 c
ejection Services	\$50,000	Event	5	\$	250,000	
ingineer - Labor & Expenses	\$25,000	Event	5	\$	125,000	Assumes 2 staff members at 10 hours per day, vehicle ren and equipment. Assumes 10 days per event.
ubstrate - Emulsified Vegetable Oil	\$18,000	Event	5	\$		Assumes 3% solution strength. Includes tax and delivery or
Maintenance, Monitoring, Permits Closeout				\$	380,215	
	£4.000	French	40	•	70.000	Assumes Quarterly Year 1 & 2, Semi-Annual Year 3 - 5 and
	\$4,200 \$7,150	Event Event	19 19	\$ \$	79,800 135,850	Annual Year 5-10
Ionitored Natural Attenuation (MNA) - Labor & Expenses		Year	10	\$	100,000	Assumes 10 Years
INA- Laboratory	\$10,000					Assumes 10 Years
INA- Laboratory nnual MNA Reporting ive Year Review Reporting	\$15,000	Each	2	\$		
INA- Laboratory nnual MNA Reporting ive Year Review Reporting	\$15,000	Each Lump Sum	1	\$		Assumes 10 Years Assumes 10 Years
NA- Laboratory nnual MNA Reporting ve Year Review Reporting	\$15,000	Lump Sum		\$		
Ionitored Natural Attenuation (MNA) - Labor & Expenses NA- Laboratory nnual MNA Reporting ive Year Review Reporting roject Management (% of OM&M Costs)	\$15,000 10%	Lump Sum	1 ototal - Soil oundwater	\$	34,565	

- 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.



em Description	QTY Uni	it Rate	Units		Cost	Assumptions/Descriptions
esign / Work Plans / Permits				\$	70,000	
Pre-Design Investigation	\$20,000 Lum	np Sum	1	\$	20,000	Inclusive of Remedial Action Work Plan, Contract Drawing
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$50,000 Lum	np Sum	1	\$	50,000	and Technical Specifications
Support Activities (Env. Surveys/Monitoring, Permitting, etc.)				\$	24,388	
Mobilization/Demobilization	10% Lum	np Sum	1	\$	6,780	Assumes mobilization of subcontractor labor, equipment material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$5,000 Lum	np Sum	1	\$	2,500	
Surveying	\$2,200	Days	2	\$	4,400	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out		Day	1	\$	1,800	
Perimeter Erosion Controls	\$8 Line		276	\$	2,208	Use of straw wattle or silt fence.
Construction Entrance	\$5,000 Lum	np Sum	1	\$	5,000	Assume 3 stations (upwind/downwind). Station includes
Perimeter Air Monitor	\$1,200 I	Day	1	\$	1,200	and DustTrak
Dust and Odor Control	\$500 I	Day	1	\$	500	Rental of Water Truck. Operator cost covered under dewatering.
Constituents and Remedial Actions Excavation, Stockpiling and Loading of Soil	\$25 Cub	hin cond	110	\$ \$	33,947	Based on previous quotes on similar projects
		•	110	*	2,750	Assumes 1 per 500 cubic yards. Assumes standard turn
Waste Classification	\$500 E	Each	1	\$	500	around time.
Furnish Topsoil and Place	\$65 Cub	bic yard	107	\$	6,945	Assumes 0.5' thick across all disturbed areas.
Seeding	\$2,500 Lum	np Sum	1	\$	2,500	
Transport & Disposal - Non-TSCA Impacted Soil for Subtitle D (<50ppm)	\$81 T	Tons	165	\$	21,252	Assumes conversion of 1.5 tons to 1 cubic yard, 100% N Hazardous
. Construction Oversight, Confirmation Sampling, Reporting, Agency Closeout				\$	43,708	
Construction Completion Report/Final Engineering Report/Soil Management Plan	\$40.000 E	Each	1	\$	40,000	
Contractor Project Management	10% Lum	np Sum	1	\$	3,708	
		Subtotal		\$	172,044 34,409	
	Contingency (Assum	ne 20%) d Total		Φ	206.453	

- 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						
Item Description	QTY	Unit Rate	Units		Cost	Assumptions/Descriptions
Design / Work Plans / Permits				\$	80,000	
Pre-Design Investigation		Lump Sum	1	\$	20,000	Inclusive of Remedial Action Work Plan, Contract
Engineering & Design - Remedial Action Work Plan / Remedial Design	\$60,000	Lump Sum	1	\$	60,000	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, equipme and material to perform the work.
Clearing and Grubbing Heavy Vegetation	\$10,000	Lump Sum	1	\$	5,000	·
Surveying	\$2,200	.,.	3	\$	6,600	Includes Metes & Bounds, Existing Conditions, Excavation Limits and Final Grade.
Utility Mark Out	\$1,800		1	\$	1,800	Has of steem on the state of th
Perimeter Erosion Controls Construction Entrance		Linear Foot Lump Sum	792 1	\$ \$	6,336 5,000	Use of straw wattle or silt fence.
Perimeter Air Monitor	\$5,000 \$1,200		1 3	\$ \$	5,000 3,600	Assume 3 stations (upwind/downwind). Station includes
	* * * * * * * * * * * * * * * * * * * *			•	-,	PID and DustTrak Rental of Water Truck. Operator cost covered under
Dust and Odor Control	\$500	Day	3	\$	1,500	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	•	2	\$	1,000	Assumes 1 per 500 cubic yards. Assumes standard to around time.
Furnish Topsoil and Place		Cubic yard	518	\$	33,692	Assumes 0.5' -1.0' thick across all disturbed areas.
Seeding	\$5,000	Lump Sum	1	\$	5,000	Accumed accurrently 11.5
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		1	\$	50,000	
Contractor Project Management	10%	Lump Sum	1	\$	10,161	
		C			202.022	
	Contingency (As	Subtotal		\$ \$	386,666 77,333	
		Ssume 20%) 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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