Electronic Copy

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47775 • Olympia, Washington 98504-7775 • 360-407-6300
Call 711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

August 17, 2021

Brandon Smith
West Bay Development Group LLC
8512 Canyon Road East, Suite 101
Puyallup, Washington 98371
brandon@themilestonecompanies.com

**Re: Rescission of No Further Action (NFA) Status for the following Site:**

- **Site Name:** Hardel Mutual Plywood
- **Site Address:** 1210 W Bay Dr. NW, Olympia, Thurston County, WA 98502
- **Facility/Site ID:** 75128579
- **Cleanup Site ID:** 3704
- **Agreed Order No.:** DE4108
- **ERTS No.:** 701857

Dear Brandon Smith:

The Department of Ecology (Ecology) issued a Satisfaction of Agreed Order letter (Enclosure A) for the Hardel Mutual Plywood (Site) on August 22, 2012. This letter also indicated that no further remedial action was required at the Site. A subsequent notification to Ecology's Environmental Report Tracking System (ERTS) on November 12, 2020, (Enclosure B) provided more information that additional contamination remains at this Site. Contamination was recently identified at concentrations greater than Model Toxics Control Act (MTCA) Method A cleanup screening levels for the following constituents:

- Petroleum hydrocarbons, volatile organic compounds, polycyclic aromatic hydrocarbons, and metals in soil and/or groundwater (Enclosures C & D).

Based on this information, Ecology believes the contamination identified is related to historical releases and rescinds the No Further Action determination contained in the August 22, 2012, Satisfaction of Agreed Order letter. The effective date of the rescission is the date of this letter. Although the terms of Agreed Order DE4108 have been satisfied, further remedial action is necessary at the Site.

## Next Steps

Ecology will update its records to reflect that Ecology has rescinded the No Further Action determination for this Site, and the Site will be listed in future publications of the Confirmed and Suspected Contaminated Sites List.[1]

If you have any questions about the rescission or next steps, please contact me at (360) 407-6257 or rebecca.lawson@ecy.wa.gov.

Sincerely,

Rebecca S. Lawson, P.E., LHG
Section Manager
Toxics Cleanup Program
Southwest Regional Office

NMA/tm

Enclosures (4): A – Satisfaction of Agreed Order Letter
B – ERTS 701857
C – Figure
D – Tables

cc: Craig Gronka, Hardel Mutual Plywood

cc by email: Nicole Floyd, City of Olympia, nfloyd@ci.olympia.wa.us
Joel Hecker, Pioneer Technologies, HeckerJ@uspioneer.com
Nicholas Acklam, Ecology nicholas.acklam@ecy.wa.gov
Ecology Site File

[1] Available at: https://apps.ecology.wa.gov/tcpwebreporting/reports/cleanup/contaminated

# Enclosure A

Satisfaction of Agreed Order Letter

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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
*PO Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300*

August 22, 2012

Mr. EJ Piliaris, General Manager
Hardel Mutual Plywood, Inc.
PO Box 540
Chehalis, WA 98532

RE: Satisfaction of Agreed Order No. DE 4108: Hardel Mutual Plywood, FS #75128579

This letter is to notify Hardel Mutual Plywood, Inc. that the above referenced Order has been satisfied under Chapter 173-340 WAC, the Model Toxics Control Act (MTCA), for the above site located at 1210 West Bay Drive NW, Olympia, WA.

As you are aware, the Washington State Department of Ecology (Ecology) has overseen the investigation, remedial activities, and groundwater monitoring that has taken place at the Hardel Mutual Plywood Site located at 1210 West Bay Drive in Olympia, WA. The remedial activities have taken place under an Agreed Order with Ecology (No. DE 4108), and in accordance with the tasks specified in the Cleanup Action Plan of 2012.

Under the Agreed Order, soil cleanup activities included:

- Removing and crushing concrete building foundations.
- Removing contaminated soil and filling the areas with clean soil and then one foot of clean recycled crushed concrete.
- Pumping and treating groundwater from areas where soil was removed.
- Removing free-floating contaminants.
- Sampling soil to make sure all contaminated soil was removed.

In addition, post-cleanup groundwater monitoring was performed for one year to confirm MTCA cleanup levels had been achieved.

Ecology issued a Fact Sheet dated March, 2012, stating preliminary approval of the remedial action for the site, subject to a 30-day public comment period regarding the completion of the site cleanup and removal from the Hazardous Sites List. Only one comment was received by Ecology during the comment period, which ended April 20, 2012.

This completes the remedial action requirements of Agreed Order #DE 4108, and therefore no additional remedial action is necessary at this site unless new or different information becomes known.

Ecology will update its database to reflect this determination. This site will not appear in future publications of the Hazardous Sites List. However, please note that because your actions were not conducted under a consent decree with Ecology, this letter is written pursuant to RCW 70.105D.030(1)(j) and does not constitute a settlement by the state under RCW 70.105D.040(4) and is not binding on Ecology.

Please call me at (360) 407-7115, or email Guy Barrett at Gbar461@ecy.wa.gov, if you have any questions.

Sincerely,

Rebecca S. Lawson

Rebecca S. Lawson, P.E., LHG
Regional Section Manager
Southwest Regional Office
Toxics Cleanup Program

RSL/GB/ksc:Hardel AO Satisfaction

By certified mail: (7009 3410 0000 1273 0104)

cc: Suzanne Dudziak, Greylock Consulting, LLC
David J. Wild, Hardel Mutual Plywood, Inc.
Katherine Scott, Ecology

# Enclosure B

ERTS 701857

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# Initial Investigation Close-Out Router

| ERTS #: 701857 | Site Name: Hardel Mutual Plywood |
|---|---|

**1**

Recommended Action: Circle one of the appropriate categories:

No Further Action (NFA)

List on Confirmed and Suspected Contaminated Sites List (CSCSL)

Initial Investigator: Aaren Fiedler

**2**

Recommended Action: Circle one of the appropriate categories:

NFA (Non-List)

NFA (List on CSCSL as NFA; cleanup occurred)

List on CSCSL

Unit Supervisor/Regional Coordinator: Kirsten Wecker

**3**

Final Action: Circle one of the appropriate categories:

NFA (Non-List)

NFA (List on CSCSL as NFA; cleanup occurred)

List on CSCSL

Section Manager:

LUST ☐ Docs on Y: ☐ NFA Letter ☐

New UNIT ☐ _____ New CSID ☐ ☐

New FSID ☐ Rescind NFA ☐ _____ ☐

**Non-Listed NFAs go Directly to the Incident Tracker, and Then the File Room; Others Follow the Process Below**

**4**

Date Entered into ISIS:

Cleanup Site ID Number:

Facility/Site ID Number: 75128579

Date Early Notice Letter Sent (*Listed Sites Only, excludes NFA-List*):

FS/ISIS Coordinator:

**5** Incident Tracker: Date:

**6** File Room: County: File Type:

DEPARTMENT OF ECOLOGY
State of Washington

☒ Check this box if you have attached any documents to this form (using the paperclip icon on the left).

| | |
|---|---|
| **ERTS #(s):** | **701857** |
| **Parcel # (s):** | **72600200100** |
| **County:** | **Thurston** |
| **FSID #:** | **75128579** |
| **CSID #:** | **Click to enter text.** |
| **UST #:** | **Click to enter text.** |

**SITE INFORMATION**

| | | |
|---|---|---|
| Site Name (Name over door):<br>**Hardel Mutual Plywood** | Site Address (including City, State, and Zip):<br>**1210 W Bay Dr. NW**<br>**Olympia WA 98502** | Phone Click to enter text.<br>Email **Click to enter text.** |
| Site Contact, Title, Business:<br>**Suzanne Dudziak, Consultant,**<br>**Greylock Environmental Inc** | Site Contact Address (including City, State, and Zip)<br>**720 S 333rd St. Suite 210**<br>**Federal Way, WA 98003** | Phone **253-661-3520**<br>Email<br>**Suzanne@greylockenv.com** |
| Site Owner, Title Business:<br>**Hardel Mutual Plywood Corp** | Site Owner Address (including City, State, and Zip):<br>**143 Maurin Rd**<br>**Chehalis, WA 98532** | Phone **1-800-562-6344**<br>Email **Click to enter text.** |
| Site Owner Contact, Title, Business:<br>**Craig Gronka,**<br>**Safety/Environmental Director**<br>**Hardel Mutual Plywood** | Site Owner Contact Address (Including City, State, and Zip):<br>**143 Maurin Rd**<br>**Chehalis, WA 98532** | Phone **1-800-562-6344**<br>Email **Click to enter text.** |
| Previous Site Owner(s):<br>**Click to enter text.** | Additional Info (for any Site Information Item):<br>**Click to enter text.** | |
| Alternate Site Name(s):<br>**HARDEL MUTUAL PLYWOOD CORP** | | |

| | |
|---|---|
| Latitude (Decimal Degrees): | **47.05801** |
| Longitude (Decimal Degrees): | **-122.91394** |

**INSPECTION INFORMATION**

☐ Please check this box if there is relevant inspection information, such as data or photos, in an existing site report for this site.

| | | | |
|---|---|---|---|
| Inspection Conducted? Yes ☐ No ☒ | Date/Time: Click to enter text. | Entry Notice: | Announced ☐ Unannounced ☐ |
| Photographs taken? | Yes ☐ | No ☒ | Note: Attach photographs or upload to PIMS |
| Samples Collected? | Yes ☐ | No ☒ | Note: Attach record with media, location, depth, etc. |

**RECOMMENDATION**

| **No Further Action** (Check appropriate box below): | | **LIST on Confirmed and Suspected Contaminated Sites List:** ☒ |
|---|---|---|
| Release or threatened release does not pose a threat | ☐ | |
| No release or threatened release | ☐ | |
| Refer to program/agency (Name: **Click to enter text.**) | ☐ | |
| Independent Cleanup Action Completed (contamination removed) | ☐ | |

*COMPLAINT (Brief Summary of ERTS Complaint):*

A petroleum odor was noted during a Site investigation and samples were collected, apparently from a single boring. The sample collected in the 8.5 foot to 10 foot below ground surface (bgs) depth showed an exceedance of the MTCA Method A cleanup screening level for TPH-D/O.

*CURRENT SITE STATUS (Brief Summary of why Site is recommended for Listing or NFA):*

Laboratory confirmed exceedance of the MTCA Method A cleanup screening level for TPH-D/O. Contamination extent is not defined for any media.

| | |
|---|---|
| Investigator: **Aaren Fiedler** | Date Submitted: 2/17/2021 |

**OBSERVATIONS** ☐ **Please check this box if you included information on the Supplemental Page at end of report.**

**Description** (If site visit made, please be sure to include the following: site observations, site features and cover, chronology of events, sources/past practices likely responsible for contamination, presence of water supply wells and other potential exposure pathways, etc):

Only a laboratory report with what appears to be a single boring with three samples collected was provided for the Site. That laboratory report and a table summarizing the results is attached.

Laboratory report shows a TPH-D/O result of 2,760 mg/kg for sample B2C8.5-10. The exact location of this sample is not known. It was reported as being in the northwest area of the property to ERTS. When I reached out to Ms. Dudziak, she indicated that that was not the correct location and that it was actually from the northeast area of the Site.

The sample collected below that exceedance (B2C10.5-11.5) did not show an exceedance with a result of <250 mg/kg. It should be noted that it is not indicated in the Report if this result is less than the practical quantitation limit (PQL) and may potentially be an estimated result, or if it is less than the method detection limit (MDL) and is a non-detect.

Additional sampling will be necessary to determine the extents of contamination in soil. Groundwater sampling should be done, and surface water sampling may be necessary at well.

A cleanup has been conducted on the property under an agreed order that received an NFA on 8/22/2012. It was reported to ERTS that the new sample was collected outside of that cleanup area. FSID is 75128579. The previous cleanup Site id is 3704

It is not known why the analysis was limited to only NWTPH-Dx petroleum ranges. Other petroleum substances and related substances may need to be investigated. Polycyclic aromatic hydrocarbons (PAHs) are indicated in ISIS as being included in the previous cleanup and are therefore being included as suspected hazardous substances for this Initial Investigation.

Property is adjacent to Budd Inlet and the northeast area of the property would be near the waterway.

Documents reviewed:

**Friedman & Bruya, Inc., Laboratory Analytical Report, letter, addressed to Suzanne Dudziak (Greylock Environmental, Inc.), September 1, 2020.**

| *CONTAMINANT GROUP* | CONTAMINANT | *SOIL* | *GROUNDWATER* | *SURFACE WATER* | *AIR* | *SEDIMENT* | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| Non-Halogenated Organics | Phenolic Compounds | Select | Select | Select | Select | Select | Compounds containing phenols (Examples: phenol; 4-methylphenol; 2-methylphenol) |
| | Non-Halogenated Solvents | Select | Select | Select | Select | Select | Organic solvents, typically volatile or semi-volatile, not containing any halogens. To determine if a product has halogens, search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB ) and look at the Chemical/Physical Properties, and Molecular Formula. If there is not a Cl, I, Br, F in the formula, it's not halogenated. (Examples: acetone, benzene, toluene, xylenes, methyl ethyl ketone, ethyl acetate, methanol, ethanol, isopropranol, formic acid, acetic acid, stoddard solvent, Naptha). *Use this when TEX contaminants are present independently of gasoline.* |
| | Polynuclear Aromatic Hydrocarbons (PAH) | **S** | **S** | **S** | Select | Select | Hydrocarbons composed of two or more benzene rings. |
| | Tributyltin | Select | Select | Select | Select | Select | The main active ingredients in biocides used to control a broad spectrum of organisms. Found in antifouling marine paint, antifungal action in textiles and industrial water systems. (Examples: Tributyltin; monobutyltin; dibutyltin) |
| | Methyl tertiary-butyl ether | Select | Select | Select | Select | Select | MTBE is a volatile oxygen-containing organic compound that was formerly used as a gasoline additive to promote complete combustion and help reduce air pollution. |
| | Benzene | Select | Select | Select | Select | Select | Benzene |
| | Other Non-Halogenated Organics | Select | Select | Select | Select | Select | TEX |
| | Petroleum Diesel | **C** | **S** | **S** | Select | Select | Petroleum Diesel |
| | Petroleum Gasoline | Select | Select | Select | Select | Select | Petroleum Gasoline |
| | Petroleum Other | **C** | **S** | **S** | Select | Select | Oil-range organics |
| Halogenated Organics (see notes at bottom) | PBDE | Select | Select | Select | Select | Select | Polybrominated di-phenyl ether |
| | Other Halogenated Organics | Select | Select | Select | Select | Select | Other organic compounds with halogens (chlorine, fluorine, bromine, iodine). search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB ) and look at the Chemical/Physical Properties, and Molecular Formula. If there is a Cl, I, Br, F in the formula, it is halogenated. (Examples: Hexachlorobutadiene; hexachlorobenzene; pentachlorophenol) |
| | Halogenated solvents | Select | Select | Select | Select | Select | PCE, chloroform, EDB, EDC, MTBE |
| | Polychlorinated Biphenyls (PCB) | Select | Select | Select | Select | Select | Any of a family of industrial compounds produced by chlorination of biphenyl, noted primarily as an environmental pollutant that accumulates in animal tissue with resultant pathogenic and teratogenic effects |
| | Dioxin/dibenzofuran compounds (see notes at bottom) | Select | Select | Select | Select | Select | A family of more than 70 compounds of chlorinated dioxins or furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). *Do not use for 'dibenzofuran', which is a non-chlorinated compound that is detected using the semivolatile organics analysis 8270* |
| Metals | Metals – Other | Select | Select | Select | Select | Select | Cr, Se, Ag, Ba, Cd |
| | Lead | Select | Select | Select | Select | Select | Lead |
| | Mercury | Select | Select | Select | Select | Select | Mercury |
| | Arsenic | Select | Select | Select | Select | Select | Arsenic |
| Pesticides | Non-halogenated pesticides | Select | Select | Select | Select | Select | Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb) |
| | Halogenated pesticides | Select | Select | Select | Select | Select | Pesticides with halogens (Examples: DDT; DDE; Chlordane; Heptachlor; alpha-beta and delta BHC; Aldrin; Endosulfan, dieldrin, endrin) |

| *CONTAMINANT GROUP* | CONTAMINANT | *SOIL* | *GROUNDWATER* | *SURFACE WATER* | *AIR* | *SEDIMENT* | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| Other Contaminants | Radioactive Wastes | Select | Select | Select | Select | Select | Wastes that emit more than background levels of radiation. |
| | Conventional Contaminants, Organic | Select | Select | Select | Select | Select | Unspecified organic matter that imposes an oxygen demand during its decomposition (Example: Total Organic Carbon) |
| | Conventional Contaminants, Inorganic | Select | Select | Select | Select | Select | Non-metallic inorganic substances or indicator parameters that may indicate the existence of contamination if present at unusual levels (Examples: Sulfides, ammonia) |
| | Asbestos | Select | Select | Select | Select | Select | All forms of Asbestos. Asbestos fibers have been used in products such as building materials, friction products and heat-resistant materials. |
| | Other Deleterious Substances | Select | Select | Select | Select | Select | Other contaminants or substances that cause subtle or unexpected harm to sediments (Examples: Wood debris; garbage (e.g., dumped in sediments)) |
| | Benthic Failures | Select | Select | Select | Select | Select | Failures of the benthic analysis standards from the Sediment Management Standards. |
| | Bioassay Failures | Select | Select | Select | Select | Select | For sediments, a failure to meet bioassay criteria from the Sediment Management Standards. For soils, a failure to meet TEE bioassay criteria for plant, animal or soil biota toxicity. |
| Reactive Wastes | Unexploded Ordinance | Select | Select | Select | Select | Select | Weapons that failed to detonate or discarded shells containing volatile material. |
| | Other Reactive Wastes | Select | Select | Select | Select | Select | Other Reactive Wastes (Examples: phosphorous, lithium metal, sodium metal) |
| | Corrosive Wastes | Select | Select | Select | Select | Select | Corrosive wastes are acidic or alkaline (basic) wastes that can readily corrode or dissolve materials they come into contact with. Wastes that are highly corrosive as defined by the Dangerous Waste Regulation (WAC 173-303-090(6)). (Examples: Hydrochloric acid; sulfuric acid; caustic soda) |

**(fill in contaminant matrix above with appropriate status choice from the key below the table)**

| Status choices for contaminants | |
|---|---|
| **Contaminant Status** | **Definition** |
| B— Below Cleanup Levels (Confirmed) | The contaminant was tested and found to be below cleanup levels. (Generally, we would not enter each and every contaminant that was tested; for example if an SVOC analysis was done we would not enter each SVOC with a status of "below". We would use this for contaminants that were believed likely to be present but were found to be below standards when tested |
| S— Suspected | The contaminant is suspected to be present; based on some knowledge about the history of the site, knowledge of regional contaminants, or based on other contaminants known to be present |
| C— Confirmed Above Cleanup Levels | The contaminant is confirmed to be present above any cleanup level. For example—above MTCA method A, B, or C; above Sediment Quality Standards; or above a presumed site-specific cleanup level (such as human health criteria for a sediment contaminant). |
| RA— Remediated - Above | The contaminant was remediated, but remains on site above the cleanup standards (for example—capped area). |
| RB— Remediated - Below | The contaminant was remediated, and no area of the site contains this contaminant above cleanup standards (for example—complete removal of contaminated soils). |

**Halogenated chemicals and solvents**: Any chemical compound with chloro, bromo, iodo or fluoro is halogenated; those with eight or fewer carbons are generally solvents (e.g. halogenated methane, ethane, propane, butane, pentane, hexane, heptane or octane ) and may also be used for or registered as pesticides or fumigants. Most are dangerous wastes, either listed or categorical. Organic compounds with more carbons are almost always halogenated pesticides or a contaminant or derivative. Referral to the HSDB is recommended if you are unfamiliar with a chemical name or compound, as it contains useful information about synonyms, uses, trade names, waste codes, and other regulatory information about most toxic or potentially toxic chemicals.

**Dibenzodioxins and dibenzofurans** are normalized to a combined equivalent toxicity based on 2,3,7,8-tetrachloro-p-dibenzodioxin as set out in WAC 173-340-708(8)(d) and in the Evaluating the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures using Toxicity Equivalency Factors Focus Sheet (https://fortress.wa.gov/ecy/clarc/FocusSheets/tef.pdf ). Results may be reported as individual compounds and isomers (usually lab results), or as a toxic equivalency value (reports).

**FOR ECOLOGY II REVIEWER USE ONLY (For Listing Sites):**

**How did the Site come to be known:** ☐ **Site Discovery (received a report)** Date (Date Report Received)
☒ **ERTS Complaint**
☐ **Other (please explain):** Click to enter text.

**Does an Early Notice Letter need to be sent:** ☒ Yes ☐ No
**If *No*, please explain why:** Click to enter text.

**NAICS Code (if known):** Click to enter text.
**Otherwise, briefly explain how property is/was used (i.e., gas station, dry cleaner, paint shop, vacant land, etc.):**
Click to enter text.

**Site Unit(s) to be created (Unit Type):** ☒ Upland (includes VCP & LUST) ☐ Sediment
**If multiple Unites needed, please explain why:** Click to enter text.

**Cleanup Process Type (for the Unit)** ☒ No Process ☐ Independent Action
☐ Voluntary Cleanup Program ☐ Ecology-supervised or conducted
☐ Federal-supervised or conducted

**Site Status:** ☒ Awaiting Cleanup ☐ Construction Complete – Performance Monitoring
☐ Cleanup Started ☐ Cleanup Complete – Active O&M/Monitoring
☐ No Further Action Required

**Model Remedy Used?** ☐
**If yes, was this a transformer spill?** ☐

**Site Manager (Default Southwest)** Southwest

**Specific confirmed contaminants include:**
Diesel, oil in Soil
Click to enter text. in Groundwater
Click to enter text. in Other (specify matrix: Choose an item.

**Facility/Site ID No. (if known):**
Click to enter text.
**Cleanup Site ID No. (if known):**
Click to enter text.

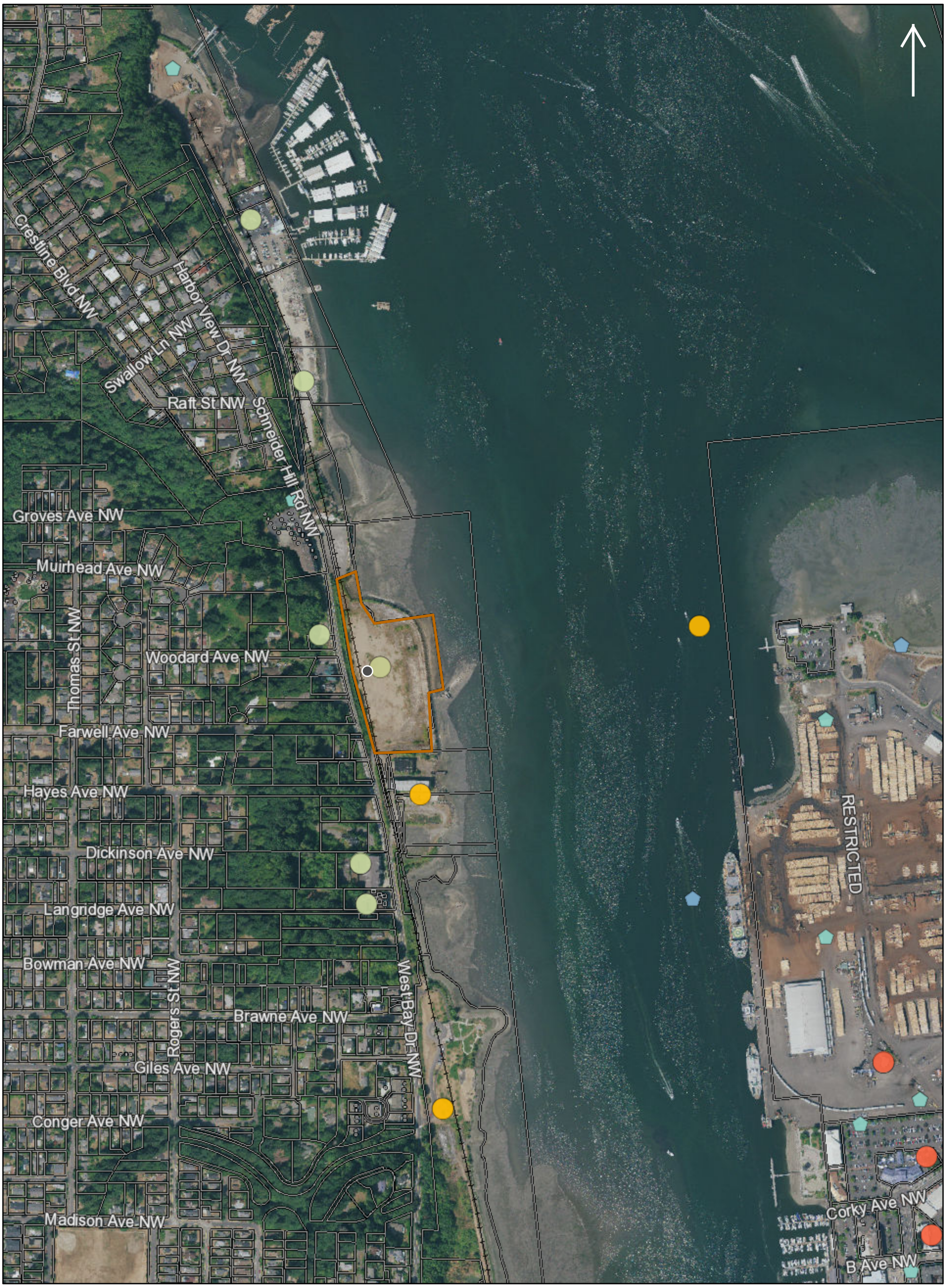
COUNTY ASSESSOR INFO: Please attach to this report a copy of the tax parcel/ownership information for each parcel associated with the site, as well as a parcel map illustrating the parcel boundary and location.

**Additional or Supplemental Information for Observations Page**

**Please use this box for any text that requires special formatting**

Click to enter text.

# Ecology Figure 1:  Site location with Parcels




February 16, 2021

TCP Cleanupsites 1

- Awaiting Cleanup
- Cleanup Started
- No Further Action
- Monitoring
- Tracked by EPA

ECY Program Data 1

- HAZWASTE
- INDUSTRIAL
- SPILLS
- W2R
- roads

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

Leica Geosystems, Inc
WA Dept. of Ecology

**Thurston County Assessor**

**Parcel Number: 72600200100** **Date: 2/16/2021**

| | | | |
|---|---|---|---|
| **Situs Address:** | 1210 WEST BAY DR NW | **Sect/Town/Range:** | 10 18 2W |
| **Owner:** | HARDEL MUTUAL PLYWOOD CORP | **Size:** | 7.00 Acres |
| **Address:** | 143 MAURIN RD<br>CHEHALIS, WA 98532 | **UseCode:** | 91 Undeveloped Land |
| | | **TCA Number:** | 110 |
| | | **Neighborhood:** | 0LEA |
| **Taxpayer:** | HARDEL MUTUAL PLYWOOD CORP | **Property Type:** | LND |
| **Address:** | 143 MAURIN RD<br>CHEHALIS, WA 98532 | **Taxable:** | YES |
| | | **Active Exemptions:** | None |
| | | **School District:** | OLYMPIA S.D. #111 |
| **Abbreviated Legal:** | SCHNEIDER LOT 1 BLK 2 LESS S 200F TGW PT HURD DLC DAF: COM SE COR DLC W 95F N18-14W 2.215 CH; E 20F; N16-53W 140.5 F; W 47.5F; N10-45W 120F; W 130F; N10-45W 60F; E 120F; N10- | **Water Source:** | PUBLIC |
| | | **Sewer Type:** | SEWER |

**Market Values**

| **Tax Year** | **2021** | **2020** | **2019** | **2018** | **2017** | **2016** | **2015** | **2014** | **2013** | **2012** |
|---|---|---|---|---|---|---|---|---|---|---|
| **Assessment Year** | **2020** | **2019** | **2018** | **2017** | **2016** | **2015** | **2014** | **2013** | **2012** | **2011** |
| Market Value Land | $3,365,700 | $3,238,500 | $2,406,100 | $2,746,100 | $2,032,850 | $1,648,700 | $1,667,200 | $1,611,650 | $2,434,650 | $2,911,000 |
| Market Value Buildings | | | | | | | | | | |
| **Market Value Total** | **$3,365,700** | **$3,238,500** | **$2,406,100** | **$2,746,100** | **$2,032,850** | **$1,648,700** | **$1,667,200** | **$1,611,650** | **$2,434,650** | **$2,911,000** |

**Land Characteristics**

| | | | |
|---|---|---|---|
| **Land Flag** | 5040 | **Land Influence(s)** | EV-EXC-VIEW<br>MT-MOD-TRAFFIC |
| **Lot Square Footage** | Not Listed | | |
| **Lot Acreage** | 7 | | |
| **Effective Frontage** | Not Listed | | |
| **Effective Depth** | Not Listed | | |
| **Water Source** | Public | | |
| **Sewer Source** | Public | | |

**Sales**

| | |
|---|---|
| **Sale Date:** | 04/29/2005 |
| **Price:** | $122,500 |
| **Excise:** | 339422 |
| **Sale Type:** | QUIT CLAIM DEED |
| **Recording Number:** | 3743789 |
| **Seller:** | |
| **Buyer:** | HARDEL MUTUAL PLYWOOD CORP |
| **Multiple Parcel Sale:** | N |



**Office of the Assessor**
**Steven J. Drew, Assessor**
2000 Lakeridge Drive SW - Olympia, WA 98502
**Customer Service (360)867-2200 -- Fax (360)867-2201 -- TDD (360)754-2933**

# Facility/Site: 75128579 Hardel Mutual Plywood

Also known as: Hardel Mutual Plywood, HARDEL MUTUAL PLYWOOD CORP


### Address

1210 W BAY DR NW

OLYMPIA WA 98502-4671

### Decimal Coordinates

Latitude: 47.058

Longitude: -122.91394

### Geographic Information

Ecology Region: SWRO

County: Thurston

Legislative District: 22

Congressional District: 10

WRIA: 13

Tribal Land: No

### Ecology Interactions

| Interaction Description | Ecology Program | Ecology Program Phone | Program ID | Start Date | End Date |
|---|---|---|---|---|---|
| Enforcement Final | TOXICS | (360) 407-6712 | | 2/15/2007 | |
| State Cleanup Site | TOXICS | (360) 407-7224 | | 7/20/2004 | 10/12/2004 |
| Underground Storage Tank | TOXICS | (360) 407-7224 | 1719 | 6/8/1998 | 3/22/2000 |
| Industrial SW GP | WATQUAL | (360) 407-6400 | SO3000121 | 12/24/1992 | 6/5/2003 |
| Emergency/Haz Chem Rpt TIER2 | HAZWASTE | (360) 407-6171 | WAD009262072 | 1/1/1989 | 3/1/1997 |
| Toxics Release Inventory | HAZWASTE | (360) 407-6171 | WAD009262072 | 7/1/1988 | 7/1/1989 |
| Toxics Release Inventory | HAZWASTE | (360) 407-6171 | WAD009262072 | 1/1/1987 | 7/4/1776 |
| Air Qual Local Authority Reg | AIRQUAL | (360) 407-6806 | | 1/1/1984 | |
| Hazardous Waste Generator | HAZWASTE | (360) 407-6734 | WAD009262072 | 8/18/1980 | 12/31/1998 |

### Industrial Codes (External Links Below)

No NAICS information is available for this facility site.

| SIC Code | SIC Description |
|---|---|
| 2436 | SOFTWOOD VENEER AND PLYWOOD |

| Site Samples with Analytical Results that Exceed the MTCA Method A Cleanup Level | | | |
|---|---|---|---|
| **Sample ID** | **Sample Date** | **Units** | **TPH-D/O CAS# NONE** |
| **Soil** | | | |
| B2C8.5-10 | 8/20/2020 | mg/kg | **2,760** |
| B2C10.5-11.5 | 8/20/2020 | mg/kg | <250 |
| B2S 8-10 | 8/20/2020 | mg/kg | <250 |
| Soil Cleanup Screening Level | | mg/kg | 2000 |

Notes

@ - Final MTCA Method A TPH-G cleanup level (CUL) will depend on the benzene, toluene, ethylbenzene, and xylenes (BTEX) amounts present in the released product.

* - A MTCA Method A CUL has not been established for this hazardous substances. A MTCA Method B CUL is being used as a cleanup screening level for the purposes of this assessment.

< - Analyte results is less than the laboratory reporting limit. That limit is not specified in the Report. It is not know to Ecology if this is a true non-detect (result less than the laboratory method detection limit (MDL)) or an estimated result (result less than the laboratory practical quantitation limit (PQL) but greater than the MDL)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 1, 2020

Suzanne Dudziak, Project Manager
Greylock Environmental, Inc.
720 S 333rd St, Suite 210
Federal Way, WA 98003

Dear Ms Dudziak:

Included is the amended report from the testing of material submitted on August 21, 2020 from the Hardel, F&BI 008336 project. Per your request, the sample ID was amended from B2C8:5-10 to B2C8.5-10.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
GRL0827R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Eric Young, B.S.

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www.friedmanandbruya.com

August 27, 2020

Suzanne Dudziak, Project Manager
Greylock Environmental, Inc.
720 S 333rd St, Suite 210
Federal Way, WA 98003

Dear Ms Dudziak:

Included are the results from the testing of material submitted on August 21, 2020 from the Hardel, F&BI 008336 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
GRL0827R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 21, 2020 by Friedman & Bruya, Inc. from the Greylock Environmental Hardel, F&BI 008336 project. Samples were logged in under the laboratory ID's listed below.

| Laboratory ID | Greylock Environmental |
|---|---|
| 008336 -01 | B2C8.5-10 |
| 008336 -02 | B2C10.5-11.5 |
| 008336 -03 | B2S 8-10 |

All quality control requirements were acceptable.

Date of Report: 08/27/20
Date Received: 08/21/20
Project: Hardel, F&BI 008336
Date Extracted: 08/24/20
Date Analyzed: 08/24/20

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

| Sample ID<br>Laboratory ID | Diesel Range<br>($C_{10}$-$C_{25}$) | Motor Oil Range<br>($C_{25}$-$C_{36}$) | Surrogate<br>(% Recovery)<br>(Limit 53-144) |
|---|---|---|---|
| B2C8.5-10<br>008336-01 | 260 x | 2,500 | 85 |
| B2C10.5-11.5<br>008336-02 | <50 | <250 | 79 |
| B2S 8-10<br>008336-03 | <50 | <250 | 83 |
| Method Blank<br>00-1913 MB | <50 | <250 | 77 |

Date of Report: 08/27/20
Date Received: 08/21/20
Project: Hardel, F&BI 008336

## QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 008350-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|---|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 90 | 100 | 64-133 | 11 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---|---|---|---|---|
| Diesel Extended | mg/kg (ppm) | 5,000 | 96 | 58-147 |

# Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

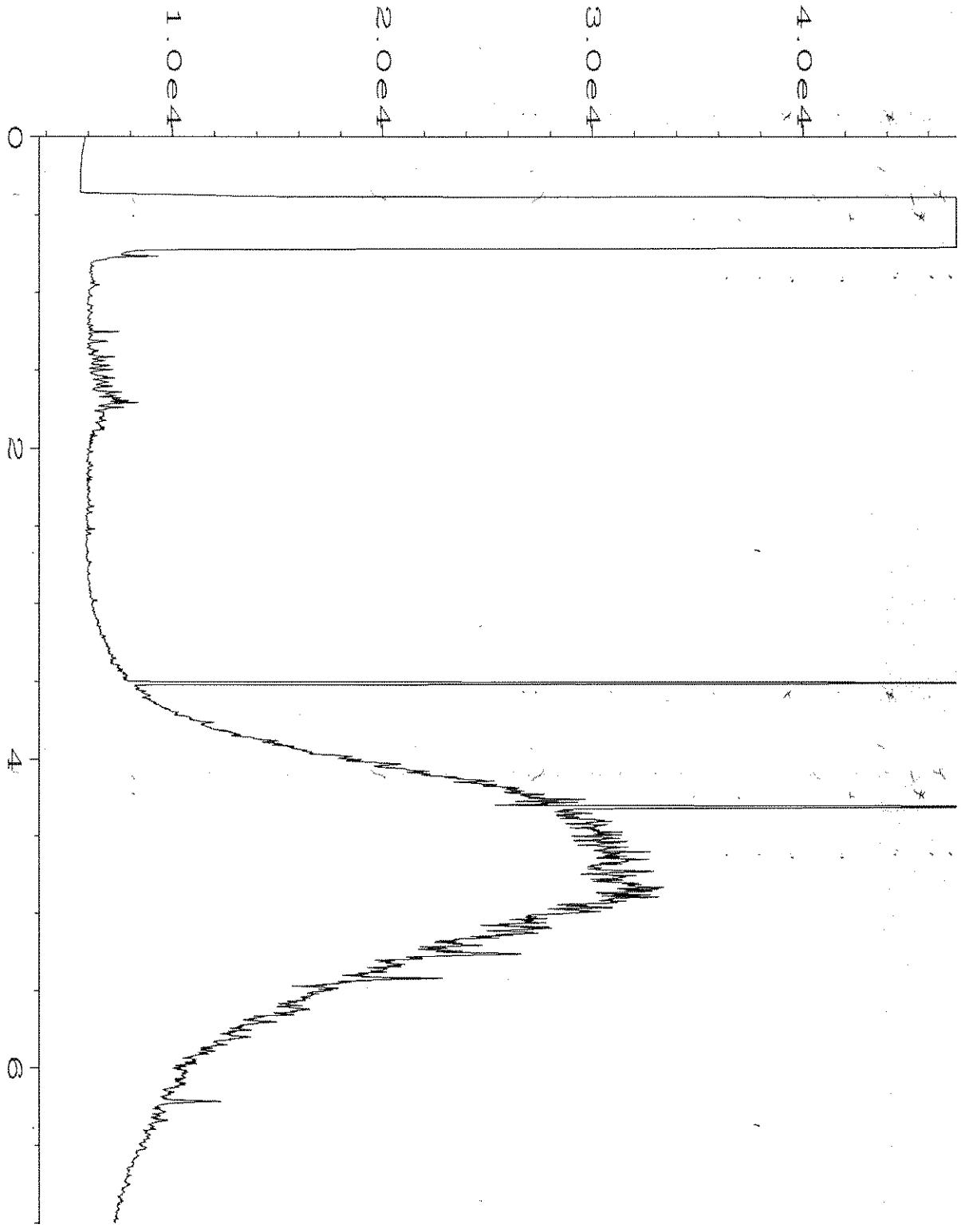
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

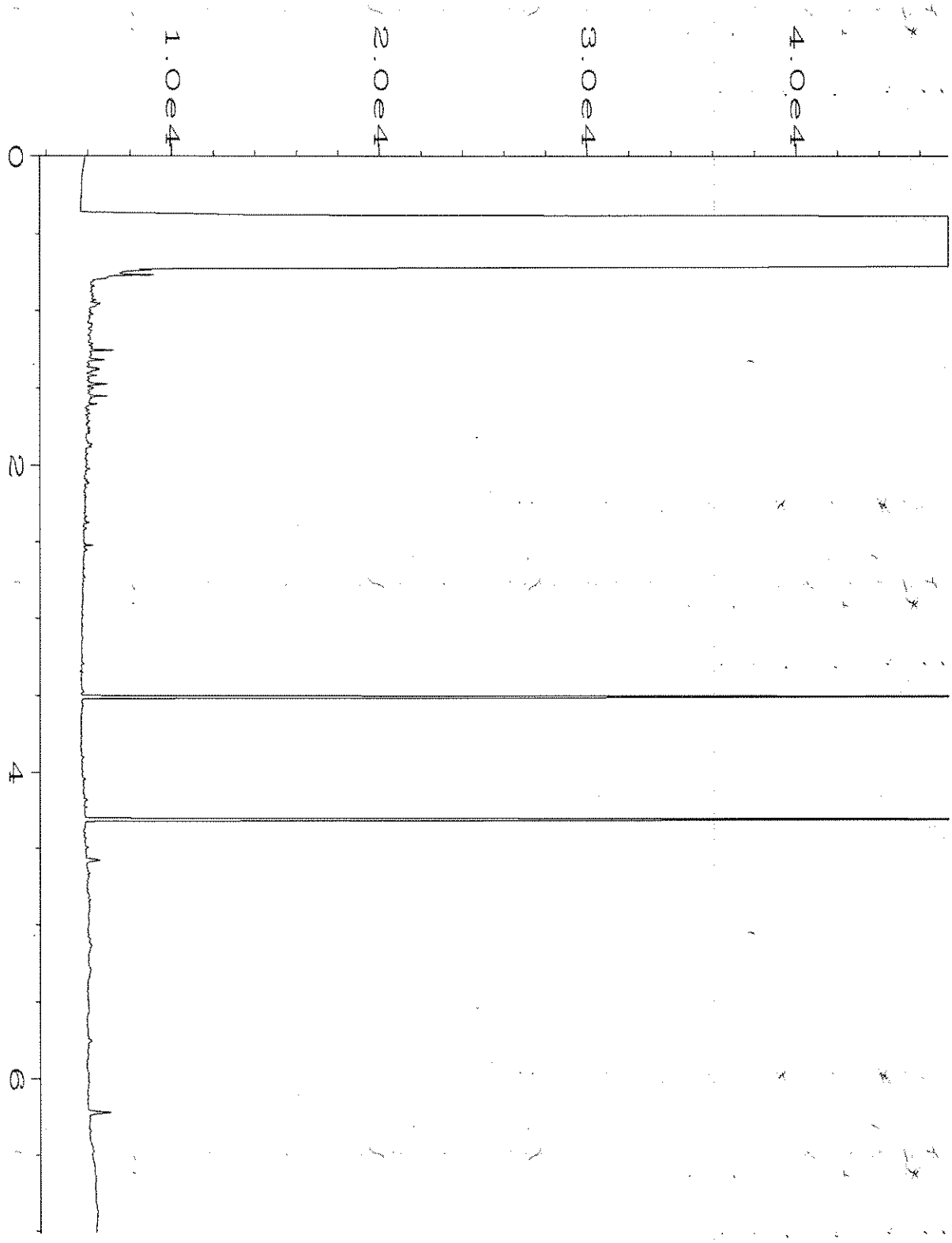
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\6\DATA\08-24-20\032F0501.D | | |
| Operator | : TL | Page Number | : 1 |
| Instrument | : GC6 | Vial Number | : 32 |
| Sample Name | : 008336-01 | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 5 |
| Acquired on | : 24 Aug 20 04:22 PM | Instrument Method | : DX.MTH |
| Report Created on | : 01 Sep 20 11:24 AM | Analysis Method | : DEFAULT.MTH |




| | | | |
|---|---|---|---|
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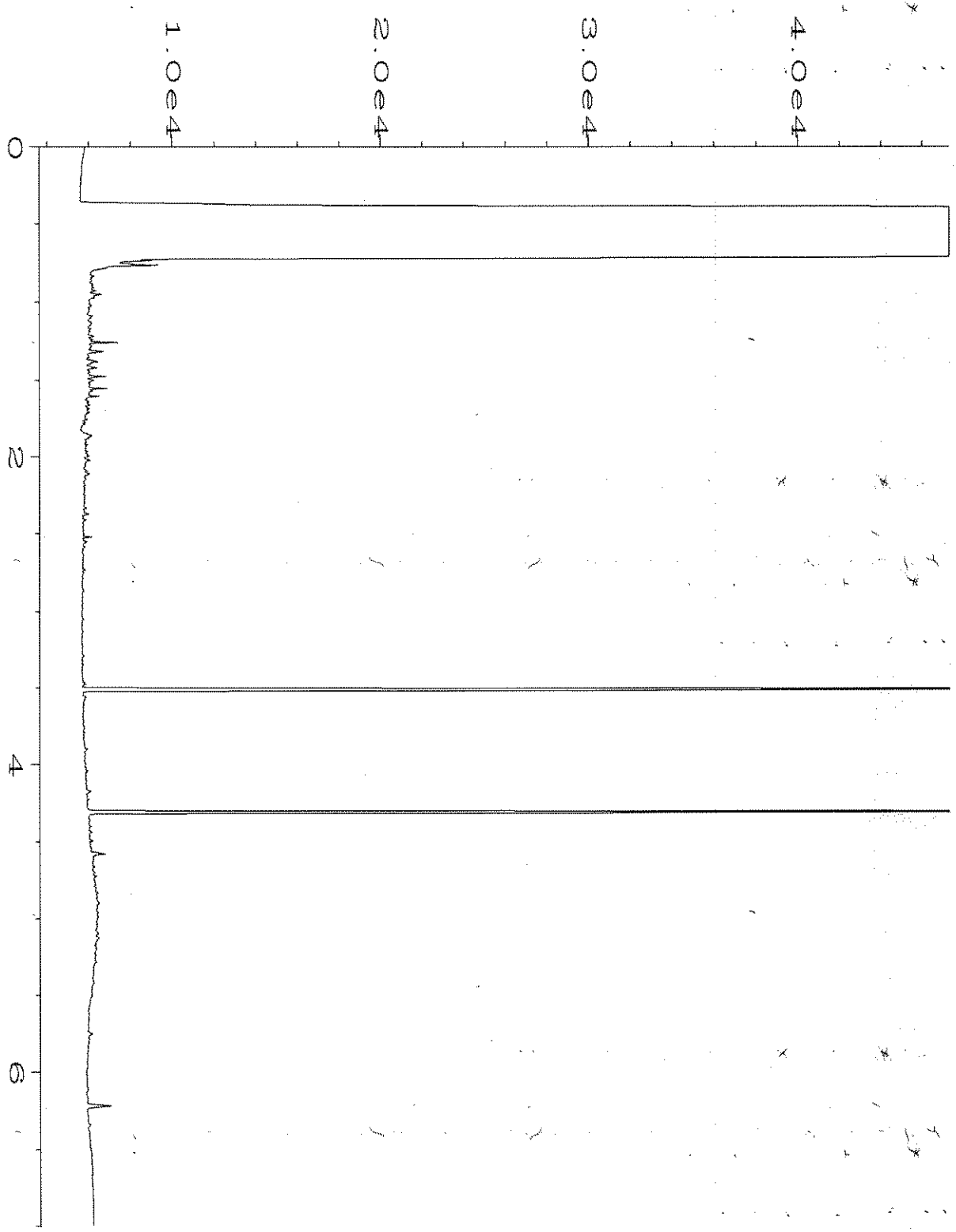
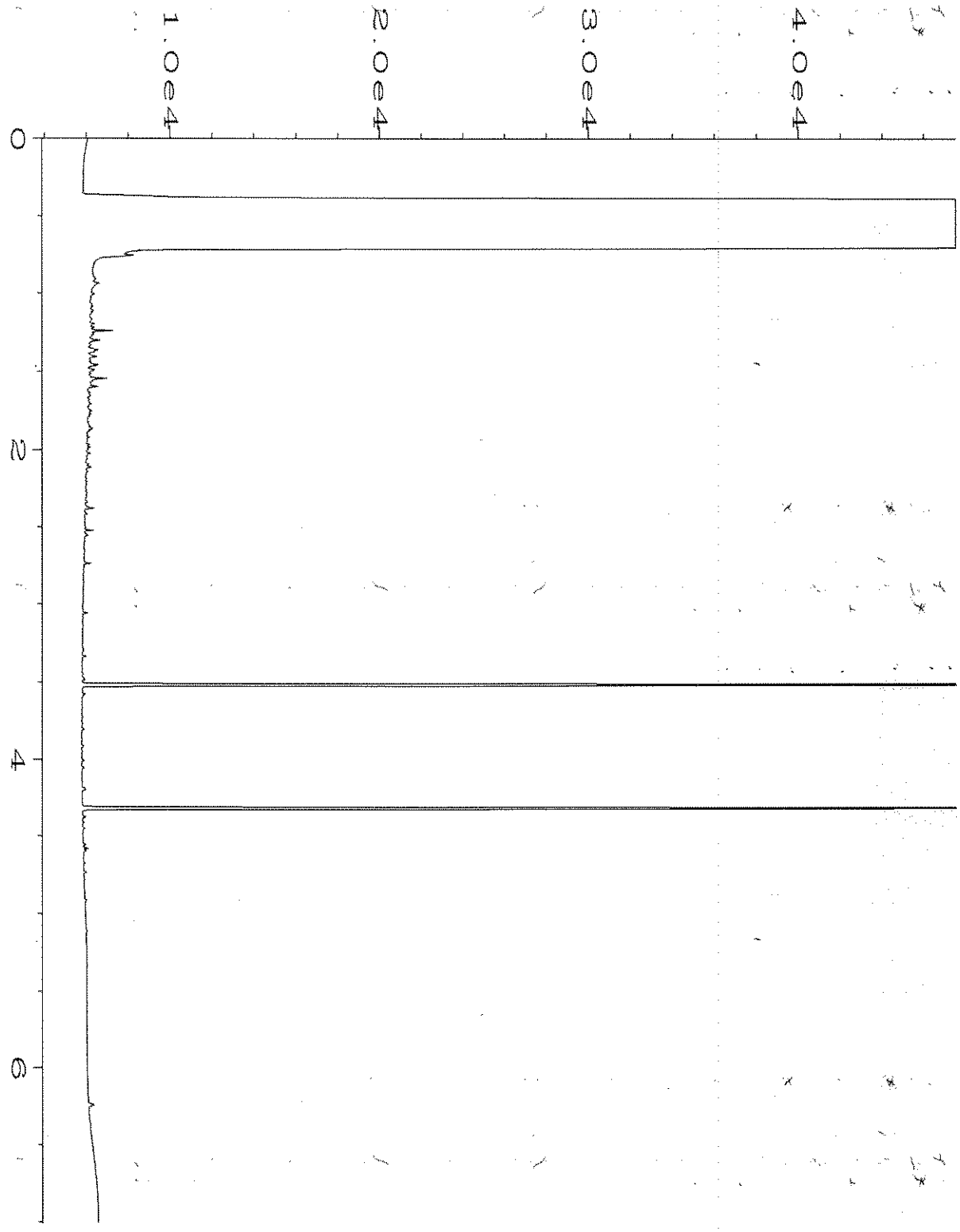
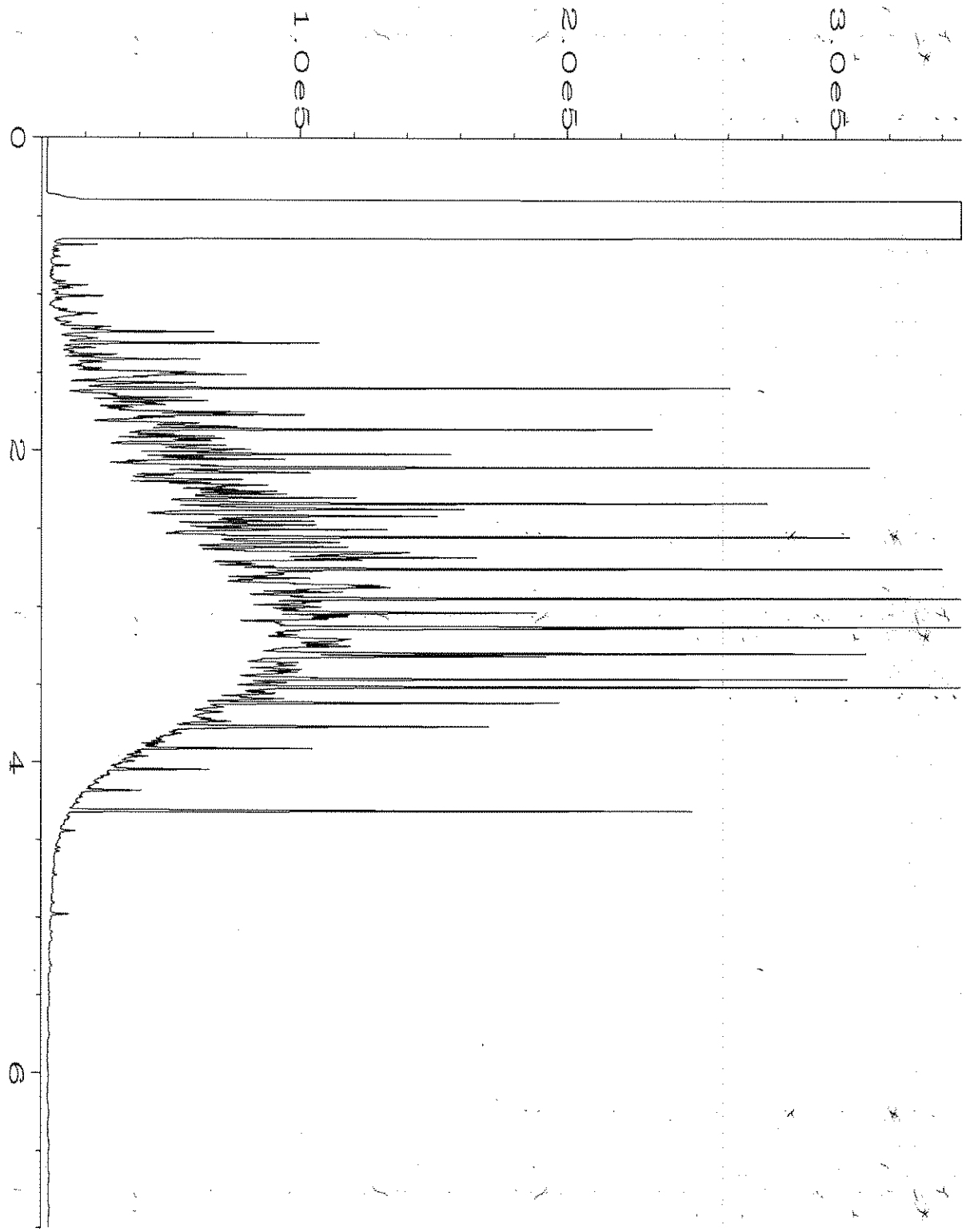
| Operator | : TL | Page Number | : 1 |
| Instrument | : GC6 | Vial Number | : 33 |
| Sample Name | : 008336-02 | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 5 |
| Acquired on | : 24 Aug 20 04:31 PM | Instrument Method | : DX.MTH |
| Report Created on: | 01 Sep 20 11:24 AM | Analysis Method | : DEFAULT.MTH |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\6\DATA\08-24-20\034F0501.D | | |
| Operator | : TL | Page Number | : 1 |
| Instrument | : GC6 | Vial Number | : 34 |
| Sample Name | : 008336-03 | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 5 |
| Acquired on | : 24 Aug 20 04:42 PM | Instrument Method | : DX.MTH |
| Report Created on: | 01 Sep 20 11:24 AM | Analysis Method | : DEFAULT.MTH |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\6\DATA\08-24-20\020F0301.D | | |
| Operator | : TL | Page Number | : 1 |
| Instrument | : GC6 | Vial Number | : 20 |
| Sample Name | : 00-1913 mb | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 3 |
| Acquired on | : 24 Aug 20 01:45 PM | Instrument Method | : DX.MTH |
| Report Created on | : 01 Sep 20 11:24 AM | Analysis Method | : DEFAULT.MTH |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\6\DATA\08-24-20\005F0401.D | | |
| Operator | : TL | Page Number | : 1 |
| Instrument | : GC6 | Vial Number | : 5 |
| Sample Name | : 1000 Dx 60-170B | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 4 |
| Acquired on | : 24 Aug 20 04:07 PM | Instrument Method | : DX.MTH |
| Report Created on | : 01 Sep 20 11:25 AM | Analysis Method | : DEFAULT.MTH |

008336

# SAMPLE CHAIN OF CUSTODY

ME 08/21/20

Page # 1 of 1 D01

Send Report To Suzanne Dutziak
Company Greylock
Address 720 S 333rd St
City, State, ZIP Federal Way
Phone # 253661 3520 Fax #
Email Address suzanne@greylockenv.ca

SAMPLERS (signature) S Dutziak
PROJECT NAME/NO. Hardel
PO #
PROJECT ADDRESS 1210 West Bay Dr. Olympia
• ELECTRONIC DATA REQUESTED

TURNAROUND TIME
• Standard Turnaround
• RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
• Dispose after 30 days
• Return samples
• Will call with instructions

Samples Received at ___ °C

| Sample ID (per SD 8/31/20 ME) | Lab ID | Date | Time | Sample Type | # of containers | ANALYSES REQUESTED: TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | | | | | | Notes (X-per SD 8/24/20 ME) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B2C 8.5-10 | 01 | 8/20 | 1039 | S | 1 | X | | | | | | | | | | | HOLD |
| B2C 10.5-11.5 | 02 | ↓ | 1052 | ↓ | 1 | X | | | | | | | | | | | HOLD |
| B2S 8-10 | 03 | ↓ | 1210 | ↓ | 1 | X | | | | | | | | | | | HOLD |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Samples received at 2 °C

*Friedman & Bruya, Inc.*
*3012 16th Avenue West*
*Seattle, WA 98119-2029*
*Ph. (206) 285-8282*
*Fax (206) 283-5044*
FORMS\COC\COC.DOC

| | SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|---|---|---|---|---|---|
| Relinquished by: | | Patricia Bowe | ESN Northwest | 8/21/20 | 9:57 |
| Received by: | | Brian Phan | FBI | 8/21/20 | 1130 |
| Relinquished by: | | | | | |
| Received by: | | | | | |

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# Enclosure C

Figure 2 – Summary of Groundwater Results and Proposed Locations
(Pioneer Technologies Corp., *RI Data Gaps Work Plan*, March 2021)

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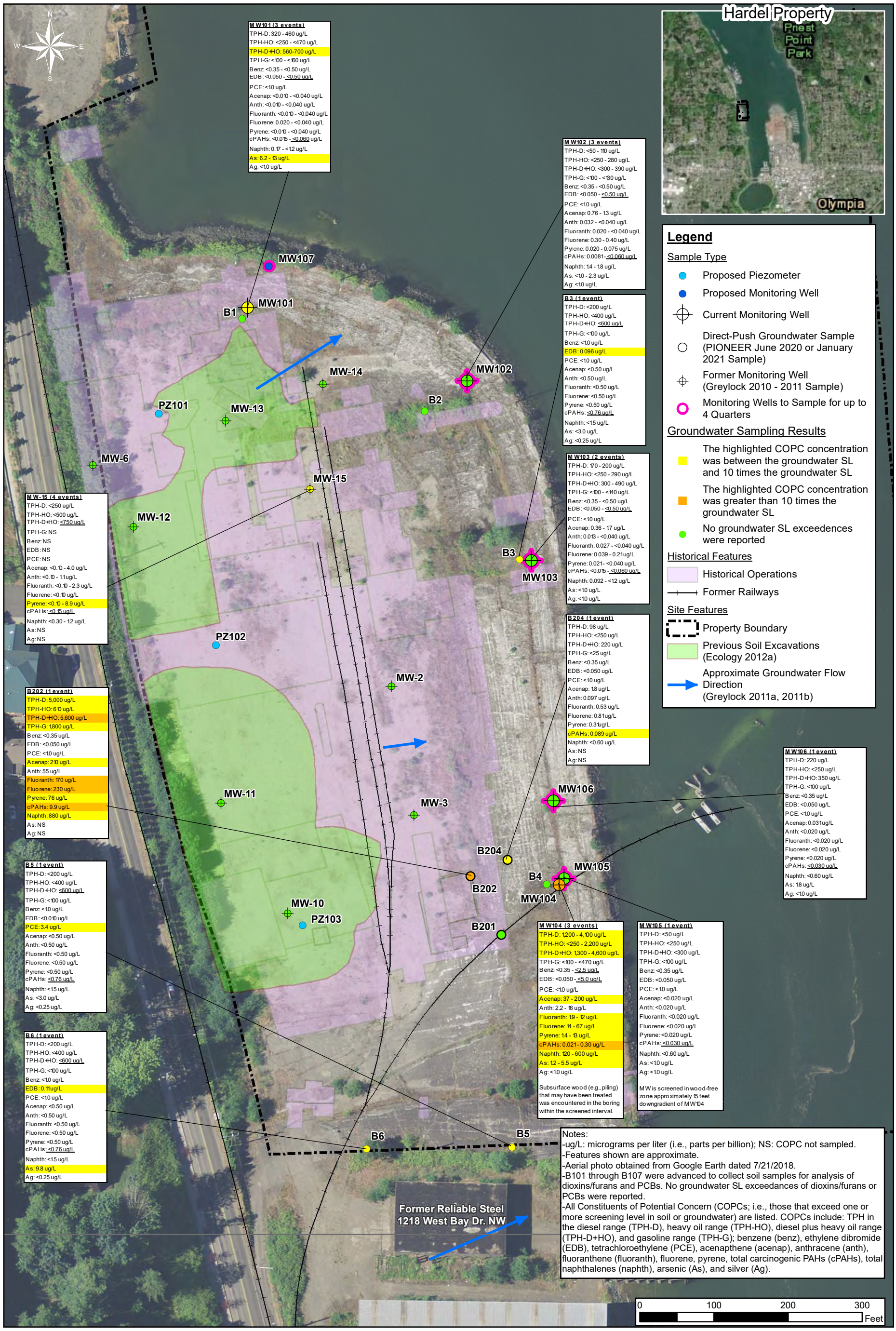


PIONEER TECHNOLOGIES CORPORATION

# Summary of Groundwater Results and Proposed Sampling Locations
Hardel Mutual Plywood Corporation
RI Data Gaps Investigation Work Plan
1210 West Bay Drive NW
Olympia, WA

Figure 2

Document Path: G:\Projects\City of Olympia\GIS\Maps\2021\Harde\Data Gaps Investigation Work Plan\Fig 2_GW Results and Proposed Samp Locs.mxd; Author: VN; Date Saved: 3/15/2021

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# Enclosure D

Table 1 – Summary of Soil Analytical Results
Table 2 – Summary of Groundwater Analytical Results
(Pioneer Technologies Corp., *RI Data Gaps Work Plan*, March 2021)

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**Table 1: Summary of Soil Analytical Results**

| Constituent | Sample Location, Depth Interval (Feet bgs), and Sample Date | | | | | | | | | | Soil Screening Levels[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B4 | B5 | B6 | B7 | B8 | B9 | Soil Direct Contact Screening Level for an Unrestricted Land Use Scenario (mg/kg) | Soil Direct Contact Screening Level for a Commercial/Industrial Land Use Scenario (mg/kg) | Soil-to-Groundwater-to Surface Water Screening Level (mg/kg) |
| | 4'-5' | 2'-4' | 2'-3' | 1'-3' | 11'-12' | 3'-4' | 3'-4' | 3'-5' | 4'-5' | 6'-7' | | | |
| | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | | | |
| **Total Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | | | | | |
| Diesel Range Organics (TPH-D) | 50 U | **41,000** | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 3,000 | 39,000 | 2,000 |
| Gasoline (TPH-G) | 10 U | **190** | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 4,700 | 150,000 | 30 |
| Heavy Fuel Oil (TPH-HO) | **2,600** | **1,500** | **3,300** | **550** | **420** | 250 U | 250 U | **430** | 250 U | 250 U | 3,000 | 39,000 | 2,000 |
| C8-C10 Aliphatic | NA | **52** | 18.3 U | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C10-C12 Aliphatic | NA | **383** | 9.16 U | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C12-C16 Aliphatic | NA | **1,880** | 9.16 U | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C16-C21 Aliphatic | NA | **1,390** | **19** | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C21-C34 Aliphatic | NA | **1,180** | **527** | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C8-C10 Aromatic | NA | **23** | 9.16 U | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C10-C12 Aromatic | NA | **73** | 9.16 U | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C12-C16 Aromatic | NA | **540** | 9.16 U | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C16-C21 Aromatic | NA | **958** | **30** | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| C21-C34 Aromatic | NA | **316** | **470** | NA | NA | NA | NA | NA | NA | NA | No Value | No Value | No Value |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 0.020 U | **10** | 0.020 U | 0.020 U | 0.020 U | 0.020 U | **0.036** | **0.17** | 0.020 U | 0.020 U | 800 | 35,000 | No Value |
| 1,3,5-Trimethylbenzene | 0.020 U | **3.6** | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | **0.049** | 0.020 U | 0.020 U | 800 | 35,000 | No Value |
| Benzene | 0.020 U | **0.34** | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 18 | 2,400 | 0.020 |
| Chloroethane | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | No Value | No Value | No Value |
| Cumene | 0.080 U | **0.56** | 0.080 U | 0.080 U | 0.080 U | 0.080 U | 0.080 U | 0.080 U | 0.080 U | 0.080 U | 8,000 | 350,000 | No Value |
| Ethylbenzene | 0.030 U | **0.33** | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 8,000 | 350,000 | **0.26** |
| Ethylene dibromide (EDB) | 0.0050 U | 0.0050 U | 0.0050 U | 0.0050 U | 0.0050 U | 0.0050 U | 0.0050 U | 0.0050 U | 0.0050 U | 0.0050 U | 0.50 | 66 | 0.0050 |
| n-Butylbenzene | 0.020 U | **1.4** | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 4,000 | 180,000 | No Value |
| n-Propylbenzene | 0.020 U | **0.95** | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 8,000 | 350,000 | No Value |
| p-Isopropyltoluene | 0.020 U | **1.4** | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | No Value | No Value | No Value |
| sec-Butylbenzene | 0.020 U | **1.3** | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 8,000 | 350,000 | No Value |
| Tetrachloroethylene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 480 | 21,000 | 0.029 |
| Trichloroethylene | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 12 | 1,800 | 0.030 |
| Xylenes, Total | 0.030 U | **2.5** | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 16,000 | 700,000 | 14 |
| 1,1,1,2-Tetrachloroethane | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,1,1-Trichloroethane | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| 1,1,2,2-Tetrachloroethane | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,1,2-Trichloroethane | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,1-Dichloroethane | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,1-Dichloroethylene | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | Not Calculated | Not Calculated | Not Calculated |
| 1,1-Dichloropropene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2,3-Trichlorobenzene | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2,3-Trichloropropane | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2,4-Trichlorobenzene | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2-Cis-Dichloroethylene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2-Dibromo-3-Chloropropane | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2-Dichlorobenzene | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2-Dichloroethane | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,2-Dichloropropane | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |

**Table 1: Summary of Soil Analytical Results**

| Constituent | Sample Location, Depth Interval (Feet bgs), and Sample Date | | | | | | | | | | Soil Screening Levels[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B4 | B5 | B6 | B7 | B8 | B9 | Soil Direct Contact Screening Level for an Unrestricted Land Use Scenario (mg/kg) | Soil Direct Contact Screening Level for a Commercial/Industrial Land Use Scenario (mg/kg) | Soil-to-Groundwater-to Surface Water Screening Level (mg/kg) |
| | 4'-5' | 2'-4' | 2'-3' | 1'-3' | 11'-12' | 3'-4' | 3'-4' | 3'-5' | 4'-5' | 6'-7' | | | |
| | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | | | |
| 1,2-Trans-Dichloroethylene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| 1,3-Cis-Dichloropropene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| 1,3-Dichlorobenzene | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,3-Dichloropropane | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | Not Calculated | Not Calculated | Not Calculated |
| 1,3-Trans-Dichloropropene | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 1,4-Dichlorobenzene | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| 2,2-Dichloropropane | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | Not Calculated | Not Calculated | Not Calculated |
| 2-Chlorotoluene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| 4-Chlorotoluene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| Bromobenzene | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| Bromodichloromethane | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| Bromoform | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| Bromomethane | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | Not Calculated | Not Calculated | Not Calculated |
| Carbon Tetrachloride | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| Chlorobenzene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| Chloroform | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| Chloromethane | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | Not Calculated | Not Calculated | Not Calculated |
| Dibromochloromethane | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| Dichlorodifluoromethane (CFC-12) | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | 0.060 U | Not Calculated | Not Calculated | Not Calculated |
| Hexachlorobutadiene | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | Not Calculated | Not Calculated | Not Calculated |
| Methylene Bromide | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.040 U | Not Calculated | Not Calculated | Not Calculated |
| Methylene Chloride | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| Methyl-t-butyl ether | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | Not Calculated | Not Calculated | Not Calculated |
| Styrene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| Tert-Butylbenzene | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| Toluene | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | 0.030 U | Not Calculated | Not Calculated | Not Calculated |
| Trichlorofluoromethane (CFC-11) | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | Not Calculated | Not Calculated | Not Calculated |
| Vinyl Chloride | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | Not Calculated | Not Calculated | Not Calculated |
| **PAHs/SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 3&4-Methylphenol coelution | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | No Value | No Value | No Value |
| Acenaphthene | 0.046 U | **4.8** | 0.041 U | 0.038 U | **0.059** | 0.054 U | 0.058 U | 0.058 U | 0.044 U | 0.038 U | 4,800 | 210,000 | **3.1** |
| Acenaphthylene | 0.046 U | 0.053 U | 0.041 U | 0.038 U | 0.044 U | 0.054 U | 0.058 U | **0.16** | 0.044 U | 0.038 U | No Value | No Value | No Value |
| Anthracene | **0.089** | **1.5** | 0.041 U | 0.038 U | 0.044 U | 0.054 U | 0.058 U | **0.28** | 0.044 U | 0.038 U | 24,000 | 1,100,000 | 1.0 |
| Benzo(ghi)perylene | **0.049** | 0.053 U | 0.041 U | 0.038 U | 0.044 U | 0.054 U | **0.083** | **0.55** | 0.044 U | 0.038 U | No Value | No Value | No Value |
| Carbazole | NA | NA | NA | NA | NA | 0.054 U | 0.087 U | **0.099** | NA | NA | No Value | No Value | No Value |
| Fluoranthene | **0.67** | **0.92** | **0.35** | **0.076** | **0.15** | 0.054 U | **0.080** | **0.24** | 0.044 U | 0.038 U | 3,200 | 140,000 | 5.9 |
| Fluorene | 0.046 U | **6.1** | 0.041 U | 0.038 U | 0.044 U | 0.054 U | 0.058 U | 0.058 U | 0.044 U | 0.038 U | 3,200 | 140,000 | **1.6** |
| Naphthalenes, Total [2] | 0.046 U | **53** | 0.041 U | 0.038 U | 0.044 U | 0.054 U | **0.52** | **0.17** | 0.044 U | 0.038 U | 1,600 | 70,000 | 4.5 |
| Phenanthrene | **0.069** | **17** | **0.083** | 0.038 U | **0.062** | 0.054 U | **0.077** | **0.13** | 0.044 U | 0.038 U | No Value | No Value | No Value |
| Phenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | 24,000 | 1,100,000 | 43 |

**Table 1: Summary of Soil Analytical Results**

| Constituent | Sample Location, Depth Interval (Feet bgs), and Sample Date | | | | | | | | | | Soil Screening Levels[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B4 | B5 | B6 | B7 | B8 | B9 | Soil Direct Contact Screening Level for an Unrestricted Land Use Scenario (mg/kg) | Soil Direct Contact Screening Level for a Commercial/Industrial Land Use Scenario (mg/kg) | Soil-to-Groundwater-to Surface Water Screening Level (mg/kg) |
| | 4'-5' | 2'-4' | 2'-3' | 1'-3' | 11'-12' | 3'-4' | 3'-4' | 3'-5' | 4'-5' | 6'-7' | | | |
| | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | | | |
| Pyrene | **0.93** | **1.7** | **0.35** | **0.073** | **0.12** | 0.054 U | **0.076** | **0.28** | 0.044 U | 0.038 U | 2,400 | 110,000 | 9.2 |
| Total cPAHs TEF [3] | **0.22** | **0.050** | **0.15** | **0.076** | 0.044 U | 0.054 U | **0.055** | **0.56** | 0.044 U | 0.038 U | 0.19 | 130 | 1.6 |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 1,2-Dichlorobenzene | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 1,3-Dichlorobenzene | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 1,4-Dichlorobenzene | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2,4,5-Trichlorophenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2,4,6-Trichlorophenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2,4-Dichlorophenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2,4-Dimethylphenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2,4-Dinitrophenol | NA | NA | NA | NA | NA | 0.57 U | 0.61 U | 0.61 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2,4-Dinitrotoluene | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2,6-Dinitrotoluene | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2-Chloronaphthalene | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2-Chlorophenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2-Nitroaniline | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 2-Nitrophenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 4,6-Dinitro-2-Methylphenol | NA | NA | NA | NA | NA | 0.22 U | 0.23 U | 0.23 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 4-Bromophenyl phenyl ether | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 4-Chloro-3-Methylphenol | NA | NA | NA | NA | NA | 0.22 U | 0.23 U | 0.23 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 4-Chloroaniline | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 4-Chlorophenyl-Phenylether | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| 4-Nitrophenol | NA | NA | NA | NA | NA | 0.54 U | 0.58 U | 0.58 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Benzyl Alcohol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Bis(2-Chloroethoxy)Methane | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Bis(2-Chloroethyl)Ether | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Bis(2-Ethylhexyl) Phthalate | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Butyl benzyl phthalate | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Dibenzofuran | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Dibutyl phthalate | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Diethyl phthalate | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Dimethyl phthalate | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Di-N-Octyl Phthalate | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Hexachlorobenzene | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Hexachlorobutadiene | NA | NA | NA | NA | NA | 0.081 U | 0.087 U | 0.086 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Hexachlorocyclopentadiene | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Hexachloroethane | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Hexanedioic Acid, Bis(2-Ethylhexyl) Ester | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Isophorone | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Nitrobenzene | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| N-Nitrosodi-n-propylamine | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| o-Cresol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |
| Pentachlorophenol | NA | NA | NA | NA | NA | 0.11 U | 0.12 U | 0.12 U | NA | NA | Not Calculated | Not Calculated | Not Calculated |

## Table 1: Summary of Soil Analytical Results

| Constituent | Sample Location, Depth Interval (Feet bgs), and Sample Date | | | | | | | | | | Soil Screening Levels[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B4 | B5 | B6 | B7 | B8 | B9 | Soil Direct Contact Screening Level for an Unrestricted Land Use Scenario (mg/kg) | Soil Direct Contact Screening Level for a Commercial/Industrial Land Use Scenario (mg/kg) | Soil-to-Groundwater-to Surface Water Screening Level (mg/kg) |
| | 4'-5' | 2'-4' | 2'-3' | 1'-3' | 11'-12' | 3'-4' | 3'-4' | 3'-5' | 4'-5' | 6'-7' | | | |
| | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | | | |
| **Metals (mg/kg)** | | | | | | | | | | | | | |
| Arsenic | **6.5** | **10.0** | **7.3** | **8.0** | 5.0 U | **7.0** | 5.0 U | **8.2** | **9.2** | 5.0 U | 20 | 88 | 20 |
| Barium | **87** | **294** | **57** | **72** | **42** | **88** | **120** | **103** | NA | NA | 16,000 | 700,000 | 1,648 |
| Cadmium | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | Not Calculated | Not Calculated | Not Calculated |
| Chromium | **14** | **37** | **12** | **14** | **24** | **23** | **13** | **20** | **10.5** | **6.7** | 120,000 | 5,300,000 | 2,000 |
| Lead | **38** | **16** | 5.0 U | **10** | **9.2** | 5.0 U | **7.2** | **11** | 5.0 U | 5.0 U | 250 | 1,000 | 1,620 |
| Mercury | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | Not Calculated | Not Calculated | Not Calculated |
| Selenium | **1.1** | **1.0** | **0.80** | **1.1** | **0.85** | **4.2** | **0.75** | **1.1** | NA | NA | 400 | 18,000 | 5.2 |
| Silver | **0.13** | **0.39** | 0.084 U | 0.082 U | 0.086 U | 0.090 U | 0.091 U | 0.098 U | NA | NA | 400 | 18,000 | **0.32** |
| **Other (%)** | | | | | | | | | | | | | |
| Total Organic Carbon | NA | NA | NA | **1.4** | NA | **0.077** | NA | **3.36** | NA | NA | No Value | No Value | No Value |

**Notes:**

%: percent dry weight, feet bgs: feet below ground surface, mg/kg: milligrams per kilogram, NA: constituent not analyzed, No Value: a screening level cannot be calculated because no values exist in CLARC (Ecology 2020), Not calculated: screening level not calculated if constituent was not detected in any media (VOCs and SVOCs only), U: constituent not detected at shown reporting limit

Concentrations shown are the average of the duplicate samples, where applicable. If a constituent was detected in only one of the duplicate samples, the average of the laboratory reporting limit and the detected concentration is shown.

**Bold** compounds were detected at the shown concentration.

Highlighted concentrations exceed the soil direct contact screening level for unrestricted land use.

Highlighted concentrations exceed the soil direct contact screening level for commercial/industrial land use.

Highlighted concentrations exceed than the soil-to-groundwater screening level, but are less than ten times the screening level.

Highlighted concentrations are greater than ten times the soil-to-groundwater screening level.

[1] Screening Level derivations are provided in Appendix B.

[2] Total naphthalene concentrations were calculated by summing the concentrations of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene. If one or more constituent was detected in the associated sample, the non-detect constituents were assumed to equal half of the laboratory reporting limit. If no constituents were detected in the associated sample, the maximum laboratory reporting limit for the associated individual constituents was shown.

[3] Total cPAH screening levels were based on the toxicity of benzo(a)pyrene in accordance with WAC 173-340-708(8). Total cPAH concentrations were calculated using MTCA toxicity equivalence factors (TEFs). If one or more cPAH was detected in the associated sample, the non-detect cPAH constituents were assumed to equal half of the laboratory reporting limit. If no cPAHs were detected in the associated sample, the maximum laboratory reporting limit for the associated individual cPAH constituents was shown.

## Table 2: Summary of Groundwater Analytical Results

| Constituent | Sample Location and Sample Date | | | | | | Groundwater Screening Level[1] (ug/L) |
|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B5 | B6 | |
| | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | |
| **Total Petroleum Hydrocarbons (ug/L)** | | | | | | | |
| Diesel Range Organics (TPH-D) | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U | 500 |
| Gasoline (TPH-G) | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 800 |
| Heavy Fuel Oil (TPH-HO) | 400 U | 400 U | 400 U | 400 U | 400 U | 400 U | 500 |
| **VOCs (ug/L)** | | | | | | | |
| 1,2,4-Trimethylbenzene | 1.0 U | **3.2** | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 80 |
| 1,3,5-Trimethylbenzene | 1.0 U | **1.1** | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 80 |
| Benzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.6 |
| Chloroethane | 2.0 U | **6.0** | 2.0 U | 2.0 U | 2.0 U | 2.0 U | No Value |
| Cumene | 4.0 U | 4.0 U | 4.0 U | 4.0 U | 4.0 U | 4.0 U | 800 |
| Ethylbenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 31 |
| Ethylene dibromide (EDB) | 0.010 U | 0.010 U | **0.096** | 0.010 U | 0.010 U | **0.11** | 0.050 |
| n-Butylbenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 400 |
| n-Propylbenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 800 |
| p-Isopropyltoluene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | No Value |
| sec-Butylbenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 800 |
| Tetrachloroethylene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | **3.4** | 1.0 U | 2.9 |
| Trichloroethylene | 0.40 U | 0.40 U | 0.40 U | 0.40 U | **0.55** | **0.51** | 0.70 |
| Xylenes, Total | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 1,600 |
| 1,1,1,2-Tetrachloroethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,1,1-Trichloroethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,1,2-Trichloroethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,1-Dichloroethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,1-Dichloroethylene | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 1,1-Dichloropropene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,2,3-Trichlorobenzene | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| 1,2,3-Trichloropropane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,2,4-Trichlorobenzene | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 1,2-Cis-Dichloroethylene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,2-Dibromo-3-Chloropropane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,2-Dichlorobenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,2-Dichloroethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,2-Dichloropropane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,2-Trans-Dichloroethylene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,3-Cis-Dichloropropene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,3-Dichlorobenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,3-Dichloropropane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,3-Trans-Dichloropropene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 1,4-Dichlorobenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 2,2-Dichloropropane | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 2-Chlorotoluene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| 4-Chlorotoluene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Bromobenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Bromodichloromethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Bromoform | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Bromomethane | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| Carbon Tetrachloride | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Chlorobenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Chloroform | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Chloromethane | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |

## Table 2: Summary of Groundwater Analytical Results

| Constituent | Sample Location and Sample Date | | | | | | Groundwater Screening Level[1] (ug/L) |
|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B5 | B6 | |
| | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | |
| Dibromochloromethane | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Dichlorodifluoromethane (CFC-12) | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| Hexachlorobutadiene | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| Methylene Bromide | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Methylene Chloride | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Methyl-t-butyl ether | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| Styrene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Tert-Butylbenzene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Toluene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | Not Calculated |
| Trichlorofluoromethane (CFC-11) | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| Vinyl Chloride | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | Not Calculated |
| **PAHs/SVOCs (ug/L)** | | | | | | | |
| 3&4-Methylphenol coelution | **1.5** | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | No Value |
| Acenaphthene | 0.50 U | **0.70** | 0.49 U | **1.2** | 0.50 U | 0.50 U | 30 |
| Acenaphthylene | 0.50 U | 0.50 U | 0.49 U | 0.50 U | 0.50 U | 0.50 U | No Value |
| Anthracene | 0.50 U | 0.50 U | 0.49 U | 0.50 U | 0.50 U | 0.50 U | 100 |
| Benzo(ghi)perylene | 0.50 U | 0.50 U | 0.49 U | 0.50 U | 0.50 U | 0.50 U | No Value |
| Carbazole | 5.0 U | 5.0 U | 4.9 U | 5.0 U | 5.0 U | 5.0 U | No Value |
| Fluoranthene | 0.50 U | 0.50 U | 0.49 U | 0.50 U | 0.50 U | 0.50 U | 6.0 |
| Fluorene | 0.50 U | **0.73** | 0.49 U | 0.50 U | 0.50 U | 0.50 U | 10.0 |
| Naphthalenes, Total [2] | 0.50 U | **12** | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 160 |
| Phenanthrene | 0.50 U | **0.88** | 0.49 U | 0.50 U | 0.50 U | 0.50 U | No Value |
| Phenol | **2.1** | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2,400 |
| Pyrene | 0.50 U | 0.50 U | 0.49 U | 0.50 U | 0.50 U | 0.50 U | 8.0 |
| Total cPAHs TEF [3] | 0.50 U | 0.50 U | 0.49 U | 0.50 U | 0.50 U | 0.50 U | 0.50 |
| 1,2,4-Trichlorobenzene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 1,2-Dichlorobenzene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 1,3-Dichlorobenzene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 1,4-Dichlorobenzene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 2,4,5-Trichlorophenol | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 2,4,6-Trichlorophenol | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 2,4-Dichlorophenol | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 2,4-Dimethylphenol | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 2,4-Dinitrophenol | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 2,4-Dinitrotoluene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 2,6-Dinitrotoluene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 2-Chloronaphthalene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 2-Chlorophenol | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 2-Nitroaniline | 5.0 U | 5.0 U | 4.9 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| 2-Nitrophenol | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| 4,6-Dinitro-2-Methylphenol | 5.0 U | 5.0 U | 4.9 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| 4-Bromophenyl phenyl ether | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 4-Chloro-3-Methylphenol | 5.0 U | 5.0 U | 4.9 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| 4-Chloroaniline | 5.0 U | 5.0 U | 4.9 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| 4-Chlorophenyl-Phenylether | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| 4-Nitrophenol | 5.0 U | 5.0 U | 4.9 U | 5.0 U | 5.0 U | 5.0 U | Not Calculated |
| Benzyl Alcohol | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Bis(2-Chloroethoxy)Methane | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Bis(2-Chloroethyl)Ether | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| Bis(2-Ethylhexyl) Phthalate | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Butyl benzyl phthalate | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |

**Table 2: Summary of Groundwater Analytical Results**

| Constituent | Sample Location and Sample Date | | | | | | Groundwater Screening Level[1] (ug/L) |
|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B5 | B6 | |
| | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | 6/3/2020 | |
| Dibenzofuran | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Dibutyl phthalate | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Diethyl phthalate | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Dimethyl phthalate | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Di-N-Octyl Phthalate | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Hexachlorobenzene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Hexachlorobutadiene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Hexachlorocyclopentadiene | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Hexachloroethane | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Hexanedioic Acid, Bis(2-Ethylhexyl) Ester | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Isophorone | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Nitrobenzene | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| N-Nitrosodi-n-propylamine | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| o-Cresol | 0.99 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.99 U | Not Calculated |
| Pentachlorophenol | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | Not Calculated |
| **Metals (ug/L)** | | | | | | | |
| Arsenic | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | **9.8** | 5.0 |
| Barium | **125** | **56** | **178** | **65** | **8.9** | **9.4** | 2,000 |
| Cadmium | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | Not Calculated |
| Chromium | 5.0 U | 5.0 U | **11** | 5.0 U | 5.0 U | 5.0 U | 100 |
| Lead | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 8.1 |
| Mercury | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | Not Calculated |
| Selenium | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 |
| Silver | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 1.9 |

**Notes:**

No Value: a screening level cannot be calculated because no values exist in CLARC (Ecology 2020), Not Calculated: screening level not calculated if constituent was not detected in any media (VOCs and SVOCs only), ug/L: micrograms per liter, U: constituent not detected at the shown reporting limit

Concentrations shown are the average of the duplicate samples, where applicable. If a constituent was detected in only one of the duplicate samples, the average of the laboratory reporting limit and the detected concentration is shown.

**Bold** compounds were detected at the shown concentration.

Highlighted concentrations exceed than the groundwater as drinking water screening level, but are less than ten times the screening level.

Highlighted concentrations are greater than ten times the groundwater as drinking water screening level (no results are in this category).

[1] Screening level derivations are provided in Appendix B.

[2] Total naphthalene concentrations were calculated by summing the concentrations of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene. If one or more constituent was detected in the associated sample, the non-detect constituents were assumed to equal half of the laboratory reporting limit. If no constituents were detected in the associated sample, the maximum laboratory reporting limit for the associated individual constituents was shown.

[3] Total cPAH concentrations were based on the toxicity of benzo(a)pyrene in accordance with WAC 173-340-708(8). Total cPAH concentrations were calculated using MTCA toxicity equivalence factors (TEFs). If one or more cPAH was detected in the associated sample, the non-detect cPAH constituents were assumed to equal half of the laboratory reporting limit. If no cPAHs were detected in the associated sample, the maximum laboratory reporting limit for the associated individual cPAH constituents was shown.