



INITIAL INVESTIGATION FIELD REPORT

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

ERTS #(s):
Parcel #(s):
County:
FSID #:
CSID #:
UST #:

| |
|--------------------------------|
| N/A |
| 32019-65-03905, 32019-65-03005 |
| Mason |
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| |

SITE INFORMATION

| | | |
|---|---|---|
| <u>Site Name (Name over door):</u> Mason County Public Trans Site | <u>Site Address (including City, State and Zip):</u> 530 and 536 West Railroad Ave Shelton, WA 98584 | <u>Phone</u> <u>Email</u> |
| <u>Site Contact, Title, Business:</u> Lisa Palazzi, CPSS, PWS Jerome W. Morrisette & Associates Inc. | <u>Site Contact Address (including City, State and Zip):</u> 1700 Cooper Point Rd SW, #B-2 Olympia, WA 98502-1110 | <u>Phone</u> (360) 352-9456 <u>Email</u> |
| <u>Site Owner, Title, Business:</u> Mason County Public Trans Ben | <u>Site Owner Address (including City, State and Zip):</u> 790 E Johns Prarie Rd Shelton, WA 98584 | <u>Phone</u> <u>Email</u> |
| <u>Site Owner Contact, Title, Business:</u> Karin Strelloff, Environmental Specialist Mason Conservation District | <u>Site Owner Contact Address (including City, State and Zip):</u> 450 W Business Park Rd Shelton, WA 98584 | <u>Phone</u> (360) 427-9436 <u>Email</u> |
| <u>Previous Site Owner(s):</u> | <u>Additional Info (for any Site Information Item):</u> | |
| <u>Alternate Site Name(s):</u> | | |

| |
|---|
| <u>Latitude (Decimal Degrees):</u> 47.213561 |
| <u>Longitude (Decimal Degrees):</u> -123.105911 |

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.

| | | |
|---|---|--|
| <u>Inspection Conducted?</u> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <u>Date/Time:</u> | <u>Entry Notice:</u> Announced <input type="checkbox"/> Unannounced <input type="checkbox"/> |
| <u>Photographs taken?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> | Note: Attach photographs or upload to PIMS | |
| <u>Samples collected?</u> Yes <input type="checkbox"/> No <input type="checkbox"/> | Note: Attach record with media, location, depth, etc. | |

RECOMMENDATION

| | |
|---|---|
| <u>No Further Action (Check appropriate box below):</u> | <u>LIST on Confirmed and Suspected Contaminated Sites List:</u> <input checked="" type="checkbox"/> |
| Release or threatened release does not pose a threat <input type="checkbox"/> | |
| No release or threatened release <input type="checkbox"/> | |
| Refer to program/agency (Name: _____) <input type="checkbox"/> | |
| Independent Cleanup Action Completed (contamination removed) <input type="checkbox"/> | |

COMPLAINT (Brief Summary of ERTS Complaint):

Site Discovery documentation received by the Department of Ecology on 5/26/2017

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

Confirmed lead, hexavalent chromium, and heavy oil soil contamination at the site.

Investigator: Kirsten Alvarez

Date Submitted: 5/30/2017

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.):

Site Discovery documentation received by the Department of Ecology on 5/26/2017.

The site is composed of two contiguous parcels, divided approximately North/South. This site was developed between 1955 and 1961. During development a one-story brick building was completed on the western parcel with landscaping. The northern half of both the western and eastern parcels were occupied by gravel parking lots. The site housed an optometry office for a number of years; the exact duration is unknown.

A property purchase agreement necessitated an evaluation of soil quality. Four areas were evaluated at the site; two locations on each parcel. The four areas were evaluated by the completion of test pits. The test pits were completed to more than 12 feet below ground surface, except SP-4, which was completed to a depth of 2.5 feet below ground surface. A total of eleven soil samples were collected from the site at the differing soil horizons. Seven surface soil samples were collected (one from SP-1, one from SP-4, two from SP-3, and 3 from SP-2). Five subsurface soil samples were collected (two from SP-1, two from SP-3, and one from SP-2). The samples were analyzed for RCRA-8 metals and NWTPH-HCID. Based on the results, samples 6 and 11 were further analyzed for NWTPH-D, re-run for lead to precisely define the results, and for chromium speciation to determine if hexavalent chromium was a concern at the site. The soil sample results indicated elevated levels of hexavalent chromium (75.8 mg/kg), lead (up to 11,100 mg/kg), and heavy oil (6,170 mg/kg) at the site above their respective MTCA Method A Cleanup Levels for Unrestricted Land Use.

Due to the elevated levels of hexavalent chromium, lead, and heavy oil at the site, I recommend this site be added to the Confirmed and Suspected Contaminated Sites List.

Documents reviewed:

Professional Services Report; PN 12104, Jerome W. Morrisette & Associates Inc., P.S., March 15, 2012

| CONTAMINANT GROUP | CONTAMINANT | SOIL | GROUNDWATER | SURFACE WATER | AIR | SEDIMENT | DESCRIPTION |
|--|---|------|-------------|---------------|-----|----------|--|
| Non-Halogenated Organics | Phenolic Compounds | | | | | | Compounds containing phenols (Examples: phenol; 4-methylphenol; 2-methylphenol) |
| | Non-Halogenated Solvents | | | | | | 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, isopropanol, formic acid, acetic acid, stoddard solvent, Naptha). <i>Use this when TEX contaminants are present independently of gasoline.</i> |
| | Polynuclear Aromatic Hydrocarbons (PAH) | | | | | | Hydrocarbons composed of two or more benzene rings. |
| | Tributyltin | | | | | | 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 | | | | | | 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 | | | | | | Benzene |
| | Other Non-Halogenated Organics | | | | | | TEX |
| | Petroleum Diesel | | | | | | Petroleum Diesel |
| | Petroleum Gasoline | | | | | | Petroleum Gasoline |
| | Petroleum Other | C | S | | | | Oil-range organics |
| Halogenated Organics (see notes at bottom) | PBDE | | | | | | Polybrominated di-phenyl ether |
| | Other Halogenated Organics | | | | | | 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 | | | | | | PCE, chloroform, EDB, EDC, MTBE |
| | Polychlorinated Biphenyls (PCB) | | | | | | 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) | | | | | | A family of more than 70 compounds of chlorinated dioxins or furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). <i>Do not use for 'dibenzofuran', which is a non-chlorinated compound that is detected using the semivolatile organics analysis 8270</i> |
| Metals | Metals - Other | C | | | | | Cr, Se, Ag, Ba, Cd |
| | Lead | C | | | | | Lead |
| | Mercury | | | | | | Mercury |
| | Arsenic | | | | | | Arsenic |
| Pesticides | Non-halogenated pesticides | | | | | | Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb) |
| | Halogenated pesticides | | | | | | 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 | | | | | | Wastes that emit more than background levels of radiation. |
| | Conventional Contaminants, Organic | | | | | | Unspecified organic matter that imposes an oxygen demand during its decomposition (Example: Total Organic Carbon) |
| | Conventional Contaminants, Inorganic | | | | | | Non-metallic inorganic substances or indicator parameters that may indicate the existence of contamination if present at unusual levels (Examples: Sulfides, ammonia) |
| | Asbestos | | | | | | All forms of Asbestos. Asbestos fibers have been used in products such as building materials, friction products and heat-resistant materials. |
| | Other Deleterious Substances | | | | | | Other contaminants or substances that cause subtle or unexpected harm to sediments (Examples: Wood debris; garbage (e.g., dumped in sediments)) |
| | Benthic Failures | | | | | | Failures of the benthic analysis standards from the Sediment Management Standards. |
| | Bioassay Failures | | | | | | 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 | | | | | | Weapons that failed to detonate or discarded shells containing volatile material. |
| | Other Reactive Wastes | | | | | | Other Reactive Wastes (Examples: phosphorous, lithium metal, sodium metal) |
| | Corrosive Wastes | | | | | | 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): 5/26/2017 (Date Report Received)
☐ ERTS Complaint
☐ Other (please explain): _____

Does an Early Notice Letter need to be sent: ☒ Yes ☐ No
If No, please explain why: _____

NAICS Code (if known): _____

Otherwise, briefly explain how property is/was used (i.e., gas station, dry cleaner, paint shop, vacant land, etc.):

Site Unit(s) to be created (Unit Type): ☒ Upland (includes VCP & LUST) ☐ Sediment
If multiple Units needed, please explain why: _____

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 **Model Remedy Used?** ☐
☐ Cleanup Started ☐ Cleanup Complete – Active O&M/Monitoring **If yes, was this a** ☐
☐ No Further Action Required **transformer spill?**

Site Manager (Default: Southwest Region): Southwest Region

Specific confirmed contaminants include:

hexavalent chromium, lead, and heavy oil _____ in Soil

_____ in Groundwater

_____ in Other (specify matrix: _____)

Facility/Site ID No. (if known):

Cleanup Site ID No. (if known):

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.

