

Investigator: Tim Mullin

INITIAL INVESTIGATION FIELD REPORT

ERTS:

None

Date Submitted: 10/31/17

Parcel(s):

11815210500 Thurston

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SITE INFORMATION			•		
Site Name (e.g., Co. name over door): Carpenter Road Site (City of Olympia PD shooting range)	Site Address (including C 6530 Martin Way, Lacey,			Site Phone: None	
Site Contact and Title: Rich Hoey, P.E., City of Olympia Public Works Director	Site Contact Address (inc 900 Plum Street SE, Olyn			Site Contact Phone: 360-753-8495	
Site Owners: City of Olympia	Site Owner Address (inclusions as above	uding City and Zip+4):		Site Owner Phone: Same as above	
Site Owner Contact: Same as above	Site Owner Contact Addr Same as above	ess (including City and 2	Zip+4):	Owner Contact Phone Same as above	
Alternate Site Name(s):	Comments:				
Previous Site Owner(s):	Comments:				
INSPECTION INFORMATION Inspection Conducted? Date/Tin Yes ☐ No ☒		Entry Notice: Annou	unced Unannoun	nced 🗌	
Photographs taken? Yes	□ No □				
Samples collected? Yes	□ No □	If Yes, be sure to include	e a figure/sketch showin	g sample locations.	
RECOMMENDATION					
No Further Action (Check appropriate bo	x below):		LIST on Confirmed		
Release or threatened release does not pose a threat					
No release or threatened release			7		
Refer to program/agency (Name:)		<u> </u>		
Independent Cleanup Action Complete	ed (i.e., contamination rem	oved)			
COMPLAINT (Brief Summary of ERTS Not entered into ERTS. City of Olympia		nvestigation report via	email on October 11, 2	017.	
CURRENT SITE STATUS (Brief Summ	nary of why Site is recom	mended for <u>Listing</u> or <u>N</u>	VFA):		
Concentrations of metals in soil exceed to Contaminated Sites List.	he MTCA Method A and	B cleanup levels. Reco	mmend list to Confirme	ed and Suspected	

OBSERVATIONS

Description (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.):

In a letter received by Ecology on July 19, 2017, GeoEngineers reported, on behalf of the City of Olympia, the release of lead and copper to soil at concentrations exceeding the MTCA Method A (lead; 250 mg/kg) and B (copper; 3,200 mg/kg) cleanup levels. The Property, located at 6530 Martin Way East, Olympia (Thurston County parcel #11815210500), is currently used as an indoor shooting range for the City of Olympia Police Department (Property). The City of Olympia provided GeoEngineers' *Environmental Investigation Carpenter Road Site* report to Ecology via email on October 11, 2017; however, the laboratory reports did not appear to be attached.

Environmental investigation at the Property focused on two areas, the active indoor shooting range and an area of apparent unknown fill in the northern portion of the Property.

Soils in the northern portion of the Property were analyzed at three locations, B-1, B-2, and B-3, up to a maximum depth of 12 inches. Soils were analyzed for antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, and silver. Laboratory reports were not provided, so the analytical method is unknown. All concentrations reported were less than the applicable MTCA Method A or B cleanup level (used for screening and comparison purposes). Chromium was not speciated for trivalent and hexavalent forms; thus, it is unknown if chromium present at the Property is trivalent or hexavalent in nature.

Soils sampled beneath the indoor shooting range (at hand auger locations HA7 through HA16) were analyzed for antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, and silver. The concentrations of antimony, copper, and/or lead in soil sampled at HA9 and HA10, exceeded the MTCA Method A and B soil cleanup levels for unrestricted land use. Composite samples of soil collected from hand auger locations HA-1 through HA-6 (outside the shooting range building) designated as dangerous waste for the toxicity characteristic for lead based on the toxicity characteristic leaching procedure (TCLP) results. Individual soil sample location results were not reported, but composite soil samples for lead were as high as 2,500 mg/kg, which is 10 times greater than the MTCA Method A cleanup level for lead in soil of 250 mg/kg. Only metals in soil were analyzed. Though contamination may be limited to the upper 2 feet of soil, all exposure pathways and potential contaminants (cPAHs, tin, etc.) should be evaluated as part of the cleanup action.

List to Confirmed a	List to Confirmed and Suspected Contaminated Sites List.						
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(fill in contaminant matrix below with appropriate status choice from the key below the table)

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GONT/AMINANT/GROUP	CONTAMINANT	708	GROUNDUATE	3	8	9	DESCRIPTION
(SOLVIAINIIVAINII SILII)	(CO) ANYINAMI	18	IS) 5D(6)8(7)5	-31	959/658	DAMADATION
			8	8			
·	Phonolic Compounds						Compounds containing phenols (Examples: phenol; 4- methylphenol; 2-methylphenol)
	Phenolic Compounds						Organic solvents, typically volatile or semi-volatile, not containing
							halogens, i.e., Chlorine, Iodine, Bromine or Fluorine. (Examples
							include acetone, benzene, toluene, ethylbenzene & xylenes [BTEX], methyl ethyl ketone, ethyl acetate, methanol, ethanol,
							isopropranol, formic acid, acetic acid, Stoddard solvent and
	Non-Halogenated Solvents Polynuclear Aromatic	ļ	<u> </u>				naphtha)
	Hydrocarbons (PAH)	s					Hydrocarbons composed of two or more benzene rings.
							The main active ingredients in biocides used to control a broad
Non-Halogenated Organics						ŀ	spectrum of organisms. Found in antifouling marine paint, antifungal action in textiles and industrial water systems.
	Tributyltin						(Examples: Tributyltin; monobutyltin; dibutyltin)
							MTBE is a volatile oxygen-containing organic compound that was
	Methyl tertiary-butyl ether						formerly used as a gasoline additive to promote complete combustion and help reduce air pollution.
	Benzene						Benzene
	Other Non-Halogenated Organics		ļ				Other Non-Halogenated Organics (Example: Phthalates)
	Petroleum Diesel						Petroleum Diesel
	Petroleum Gasoline	 					Petroleum Gasoline
	Petroleum Other						Crude oil and any fraction thereof. Petroleum products that are not specifically Gasoline or Diesel.
	PBDE	3/3/2020	7/59 W	(Maring)	10000	4700 mg	Polybrominated di-phenyl ether
			101045036		7559676 70769978	anteriore anteriore	Other organic compounds with halogens (chlorine, fluorine,
		140 (60)	4 3 9	1000		165-103	bromine, iodine). search HSDB (http://toxnet.nlm.nih.gov/cgi-
2	Other Halogenated Organics				193.989.0 193.989.0		bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is a Cl, I, Br, F in the
			a critic	40.00	71.7520.11 3		formula, it is halogenated. (Examples: Hexachlorobutadiene;
			16025039 243346	995.656	30 93 93 30 945 4		hexachlorobenzene; pentachlorophenol) Solvents containing halogens (Halogen is typically chlorine, but
						30.36	can also be fluorine, bromine, iodine), and their breakdown
Halogenated Organics (see	Halogenated solvents .						products (Examples: Trichloroethylene; Tetrachloroethylene (aka
notes at bottom)						1000.000	Perchloroethylene); TCE; TCA; trans and cis 1,2 dichloroethylene; vinyl chloride)
		0.15					Any of a family of industrial compounds produced by chlorination
	Polychlorinated Biphenyls (PCB)		10000		60.55.0		of biphenyl, noted primarily as an environmental pollutant that accumulates in animal tissue with resultant pathogenic and
				NE VE			teratogenic effects
		(E) (0)		100		249, 65 44, 5	A family of more than 70 compounds of chlorinated dioxins or
	Dioxin/dibenzofuran compounds						furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). Do not use for 'dibenzofuran', which is a non-
	(see notes at bottom)				(4) (1) (4)		chlorinated compound that is detected using the semivolatile
					201	\$30000	organics analysis 8270 Metals other than arsenic, lead, or mercury. (Examples: cadmium,
Metals	Metals - Other	С					antimony, zinc, copper, silver)
	Lead	С					Lead
	Mercury	В					Mercury
	Arsenic	В			1100000000		Arsenic
Pesticides	Non-halogenated pesticides			(55) (55) (55) (52)			Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb)
		1865	1000000	500 AVE	20 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 CO	Pesticides with halogens (Examples: DDT; DDE; Chlordane;
	Halogenated pesticides						Heptachlor; alpha-beta and delta BHC; Aldrin; Endosulfan,
	Radioactive Wastes			46767	\$60000	1686,655	dieldrin, endrin)
Other Contaminants		+					Wastes that emit more than background levels of radiation.
	Conventional Contaminants,	1	<u> </u>		<u> </u>		Unspecified organic matter that imposes an oxygen demand

CONTAMINANT GROUP	CONTAMINANT	zon.	GROUND/KATER	SURFACE WATER	418	BEDROCK	DESCRIPTION
	Organic					·	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 S	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		V38 4				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)

Statuscholzesfor 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, lodo or fluoro is halogenated; those with eight or fewer carbons are generally solvents (e.g. halogenated methane, ethane, propane, buttane, pentane, hexane, heptane or octane) and may also be used for or registered as pesticides or funigants. Most are dangerous wastes, either listed or categorical. Organic compounds with more carbons are almost always halogenated pesticides or a contaminant or derivitive. Referral to the HSDB is recommended 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 Ch. 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 USE ONLY (For Listin	ıg Sites):
How did the Site come to be known:	Site Discovery (received a report): (O(1)) (Date Report Received) Carry Complaint Other (please explain):
Does an Early Notice Letter need to be: 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 of	explain why:
Cleanup Process Type (for the Unit):	
Site Status: Awaiting Cleanup Cleanup Started No Further Action Req	☐ Construction Complete — Performance Monitoring ☐ Cleanup Complete — Active O&M/Monitoring uired
Site Manager (Default: Southwest Region	on): Southwest Region
Specific confirmed contaminants include:	Facility/Site ID No. (if known):
cotimeny, capec, leadin Soil	불통통한 경험 전 등 이 시 기들이 다. 그 그 그 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이
in Groundwater	분분분들은 한 물건 이 이 아이를 하는데 하는데 사람들이 되었다. 물건물 하는 것은 물건이 아니라 이 사람들이 있습니다.
in Other (specify r	natrix:

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.

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Long to properties