INITIAL INVESTIGATION FIELD REPORT

WASHINGTON STATE DEPARTMENT OF ECOLOGY

ERTS: 648828
Parcel(s): 902242005 and 902231004
County: Jefferson

SITE INFORMATION

Site Name (e.g., Co. name over door): Snow Creek and Maynard Shoreline Excavation Project	Site Address (including City and Zip+4): Highway 101 Discovery Bay	Site Phone:
Site Contact and Title: Kevin Long	Site Contact Address (including City and Zip+4): North Olympic Salmon Coalition, Suite 205 B W Pattison Street Port Hadlock	Site Contact Phone: 360.379.8051
Site Owner: WDF	Site Owner Address (including City and Zip+4): Washington Department of Fish and Wildlife 600 Capital Way, Olympia, WA 98502	Site Owner Phone: 360.379.8051
Site Owner Contact:	Site Owner Contact Address (including City and Zip+4): Washington Department of Fish and Wildlife 600 Capital Way, Olympia, WA 98502	Owner Contact Phone: 360 379-8051
Alternate Site Name(s):	Comments:	
Previous Site Owner(s):	Comments:	

Latitude (Decimal Degrees): N 47. 99815
Longitude (Decimal Degrees): W 122.880017

INSPECTION INFORMATION

Inspection Conducted? Yes ☐ No ☒	Date/Time:	Entry Notice: Announced ☐	Unannounced ☐
Photographs taken?	Yes ☐	No ☒	
Samples collected?	Yes ☐	No ☒	If *Yes*, be sure to include a figure/sketch showing sample locations.

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:_____)	☐	
Independent Cleanup Action Completed (i.e., contamination removed)	☒	

COMPLAINT (Brief Summary of ERTS Complaint):

DLH Environmental reported PAH contamination for the North Olympic Salmon Coalition Salmon Restoration Project

CURRENT SITE STATUS (Brief Summary of why Site is recommended for Listing or NFA):
The North Olympic Salmon Coalition conducted an independent cleanup of the PAH contaminated soils in and around the Maynard Bridge. Attached are two project report detailing the investigation and independent cleanup.
Snow Creek and Maynard Shoreline Restoration Project April 28, 2014
Snow Creek and Maynard Shoreline Restoration Project September 24, 2014
13 confirmation samples showed successful remediation of the contaminated soil.

Investigator: Pinky Feria Mingo Date Submitted: 10/16/2014

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

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	BEDROCK	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 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 naphtha)
	Polynuclear Aromatic Hydrocarbons (PAH)	RB					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						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.
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						Solvents containing halogens (Halogen is typically chlorine, but can also be fluorine, bromine, iodine), and their breakdown products (Examples: Trichloroethylene; Tetrachloroethylene (aka Perchloroethylene); TCE; TCA; trans and cis 1,2 dichloroethylene; vinyl chloride)
	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). *Do not use for 'dibenzofuran', which is a non-chlorinated compound that is detected using the semivolatile organics analysis 8270*
Metals	Metals - Other						Metals other than arsenic, lead, or mercury. (Examples: cadmium, antimony, zinc, copper, silver)
	Lead						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)
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

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	BEDROCK	DESCRIPTION
							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)

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 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 Listing Sites):

How did the Site come to be known: ☐ **Site Discovery (received a report):** _____ (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 ☐ Voluntary Cleanup Program ☐ Federal-supervised or conducted ☐ Independent Action ☐ Ecology-supervised or conducted

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

Site Manager (Default: Southwest Region): _____

Specific confirmed contaminants include:

_____ in Soil

_____ in Groundwater

_____ in Other (specify matrix: _____)

Facility/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.

Parcel Number: 902231004 08/15/2014

Owner Mailing Address:
STATE OF WASHINGTON -FISH/WDLF
REAL ESTATE SERVICES DIV
600 CAPITOL WAY N

OLYMPIA WA 98501-1076

Site Address:

98501-1076

Section:	23	School District:	Port Townsend (50)
Qtr Section:	NE1/4	Fire Dist:	Discovery Bay (5)
Township:	29N	Tax Status:	STATE
Range:	2W	Tax Code:	0151
Planning area:	98501-1076		
Sub Division:			
Land Use Code:	9100		

98501-1076

Property Description:
S23 T29 R2W GOV LOTS 1 & 2(E OF SR 101) LESS TAX 4 & 26 LS PTN GOV LOT 1 BTWN SR 101 & RR R/W(RR R/W INCL) LESS TAX 34 AND 35

Parcel Number: 902242005 08/15/2014

Owner Mailing Address:
STATE OF WASHINGTON -FISH/WDLF
REAL ESTATE SERVICES DIV
600 CAPITOL WAY N

OLYMPIA WA 98501-1076

Site Address:

98501-1076

Section:	24	School District:	Port Townsend (50)
Qtr Section:	NW1/4	Fire Dist:	Discovery Bay (5)
Township:	29N	Tax Status:	STATE
Range:	2W	Tax Code:	0151
Planning area:	98501-1076		
Sub Division:			
Land Use Code:	9100		

98501-1076

Property Description:
S24 T29 R2W TL TAX V(LS SR 101 R/W & TL V-1)

OBSERVATIONS

The Snow Creek and Maynard Bridge are part of a North Olympic Salmon Coalition (NOSC) Habitat Restoration Project. From the turn of the previous century to around 1950's the area housed an active railroad spur and a lumber mill. Jefferson County Public Health became aware of the project during a SEPA review. The proposed project required extensive excavation and some of the soil was proposed to use as upland fill. NOSC submitted a Phase I Site Assessment that had been done, but limited to the area in and around the lumber yard and did not include the railroad spur area. In consultation with the SHA Coordinator at the time, we requested NOSC to screen for PAHs, Metals, NWTPH-Gx and NWTPH—Dx (Snow Creek and Maynard Shoreline Restoration Project April 28, 2014). The initial sampling for Snow Creek (29 soil samples) and Maynard Bridge (24 soil samples) all came back negative for petroleum hydrocarbons and metals. The only contamination present was PAH in and around the Maynard Bridge abutments.

In July of 2014, NOSC excavated and disposed of approximately 306 cubic yards of PAH contaminated soil (Snow Creek and Maynard Shoreline Restoration Project September 24, 2014). They took thirteen confirmation soil samples and all were below the Toxicity Equivalent Factor (TEF) for PAHs.

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.):

The site is along the South End of Discovery Bay and includes tideland and marshlands. Groundwater was detected between four and six feet of the railroad grade. Please see the attached report for additional information on the project.