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):	**718615**
Parcel # (s):	**0320023062, 0320023024**
County:	**Pierce**
FSID #:	**4768412**
CSID #:	17177
UST #:	Click to enter text.

SITE INFORMATION

Site Name (Name over door): **Tacoma Rail Release at Tacoma Rail Yard Maintenance Shop**	Site Address (including City, State, and Zip): **2601 SR 509 North, Frontage Road, Tacoma, WA 98421**	Phone **253.502.8909** Email Click to enter text.
Site Contact, Title, Business: **James Bozic, Senior Environmental Specialist, Tacoma Public Utilities**	Site Contact Address (including City, State, and Zip): **3628 South 35th Street, Tacoma, WA 98409-3192**	Phone **253.502.8767** Email **jbozic@cityoftacoma.org**
Site Owner, Title Business: **Tacoma Public Utilities – Tacoma Rail**	Site Owner Address (including City, State, and Zip): **2601 SR 509 North, Frontage Rd, Tacoma, WA 98421**	Phone **253.502.8908** Email **cservice@cityoftacoma.org**
Site Owner Contact, Title, Business: **Scott Hooton, Project Manager, Environmental Programs, Port of Tacoma**	Site Owner Contact Address (Including City, State, and Zip): **PO Box 1837, Tacoma, WA 98401**	Phone **253.383.9428** Email **shooton@portoftacoma.com**
Previous Site Owner(s): Click to enter text.	Additional Info (for any Site Information Item): Click to enter text.	
Alternate Site Name(s): Click to enter text.		

Latitude (Decimal Degrees):	**47.2481888**	**Longitude** (Decimal Degrees):	**-122.3953843**

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):

Engine Oil release to railroad ballast due to mechanical failure.

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

Laboratory confirmed exceedance of TPH-O in soil.

Investigator: **Aaren Fiedler**	Date Submitted: **6/13/2023**

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):

Location is within the following Special Condition Areas:

* Tacoma Smelter Plume (TSP) (Pierce County; FSID24971643) under 20 ppm area.
* Puyallup Tribe of Indians Tribal Land.
* 10-year Wellhead Protection Zone for City of Fircrest Well #9 AAY306

Release resulted from a leaking valve. The majority of the release occurred at the end points where the locomotive spent the majority of its time, with limited, and indiscernible from background release amounts along the tracks between the end points. This form is for the endpoint at the Tacoma Rail yard. The other end point is at X-CEL Feeds located at 5436 S Washington Street, Tacoma, 98409. Robinson Noble Figure 1 Shows the total train path.

Cleanup at the Tacoma Rail Yard was conducted on November 2 and 3, 2022 using a vacuum excavator to remove impacted ballast rock and underlying soil. Robinson Noble Figure 2 Shows the excavation area and sample locations.

Cleanup could not be completed at the eastern end of the Site due to the presence of a spill containment system. Sample 4 has a TPH-O concentration of 16,000 mg/kg, sample 7 has a TPH-O concentration of 260,000 mg/kg, and sample 10 has a concentration of 22,000 mg/kg. Analysis was limited to Oil range total petroleum hydrocarbons (TPH-O) only and not the total NWTPH-Dx analysis. benzene, toluene, ethylbenzene, and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and volatile organic compounds (VOCs) where not sampled for.

The remaining samples (1, 2, 3, 5, 6, 8, 9, 11, and 12) range from <250 mg/kg to 690 mg/kg, which are below the MTCA Method A CUL of 2,000 mg/kg. Robinson Noble Tale 1 summarized the laboratory analytical results.

Recommend listing the release on the CSCSL as a new CSID associated with the FSID already assigned to the Site.

Documents reviewed:

Robinson Noble, Tacoma Public Utilities; Tacoma Rail Multiple Location Spill, January 26, 2023.

CONTAMINANT GROUP	CONTAMINANT	*SOIL*	*GROUNDWATER*	*SURFACE WATER*	*AIR*	*SEDIMENT*	DESCRIPTION
Non-Halogenated Organics	Phenolic Compounds	Select	Select	Select		Select	Compounds containing phenols (Examples: phenol; 4-methylphenol; 2-methylphenol)
	Non-Halogenated Solvents	**S**	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**	Select	Select	Select	Select	Hydrocarbons composed of two or more benzene rings.
	Tributyltin	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	**S**	Select	Select	Select	Select	Benzene
	Other Non-Halogenated Organics	Select	Select	Select	Select	Select	TEX
	Petroleum Diesel	Select	Select	Select		Select	Petroleum Diesel
	Petroleum Gasoline	Select	Select	Select	Select	Select	Petroleum Gasoline
	Petroleum Other	**C**	Select	Select		Select	Oil-range organics
Halogenated Organics (see notes at bottom)	PBDE	Select	Select	Select	Select	Select	Polybrominated di-phenyl ether
	Other Halogenated Organics	**S**	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)	**S**	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	**S**	Select	Select		Select	Cr, Se, Ag, Ba, Cd
	Lead	**S**	Select	Select		Select	Lead
	Mercury	**S**	Select	Select	Select	Select	Mercury
	Arsenic	**S**	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	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	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	Failures of the benthic analysis standards from the Sediment Management Standards.
	Bioassay Failures	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.):
Rail Yard

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 Click to enter text.**)** Click to enter text.

Specific confirmed contaminants include:
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.

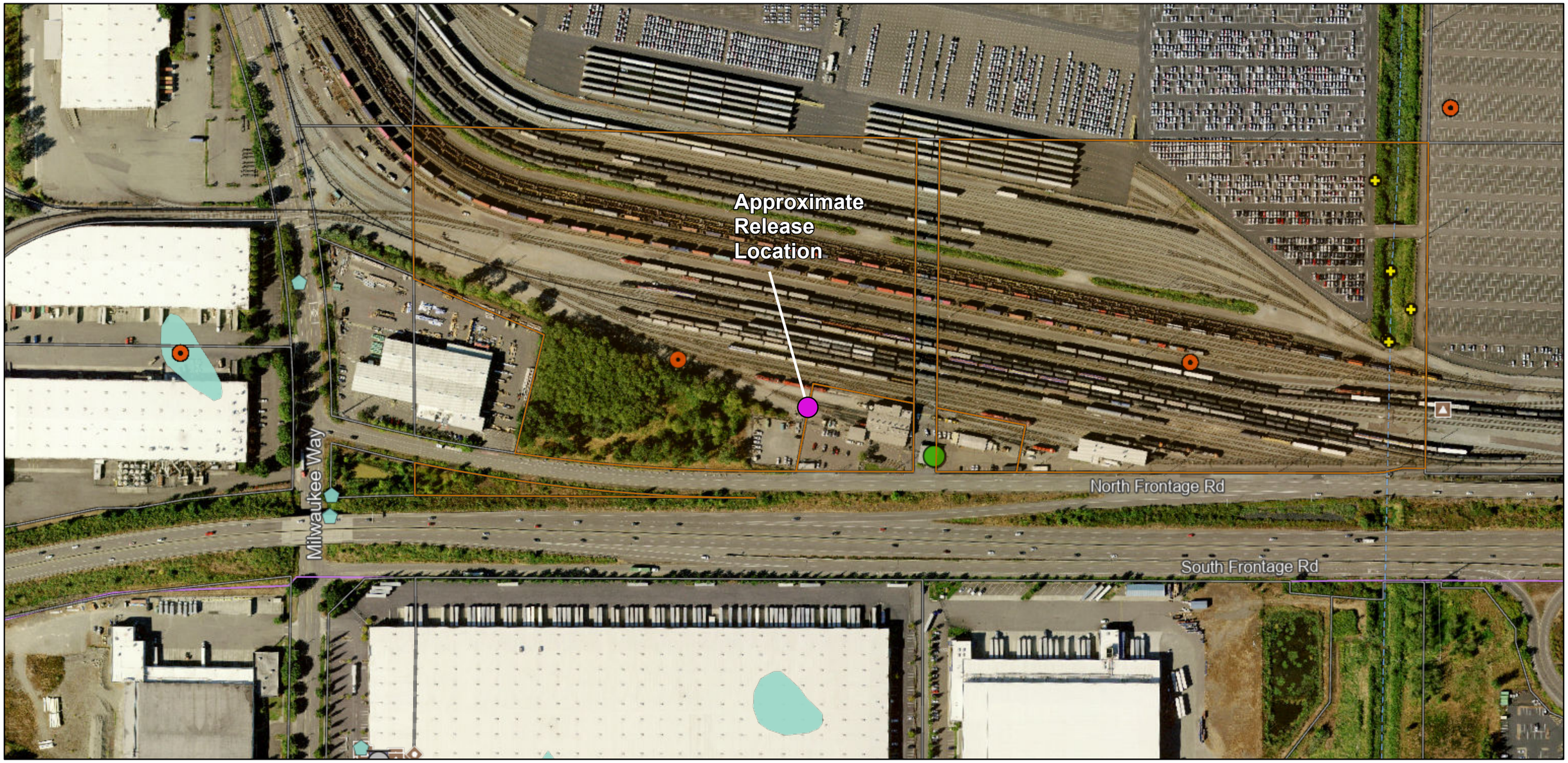
COUNTY ASSESSOR INFO: Please attach to this report a copy of the tax parcel/ownership information for each parcel associated with the site, as well as a parcel map illustrating the parcel boundary and location.

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: Release Location with Parcels



June 13, 2023

UST Sites 1
Active/Inactive
- Active
- Inactive

VCP Cleanupsites 1
Cleanup Status
- Complete

TCP Cleanupsites 1
Cleanup Status
- Awaiting Cleanup
- Complete

LUST Sites 1

ECY Program Data 1
EcologyProgram
- HAZWASTE

EIM_Locations
IsLocationAWell
- Y
- <all other values>

Outfalls
FeatureTypeCode
- Groundwater
- Surface Water

roads

Wetlands

NHD Flowlines

NHD Named Rivers

Pipeline

Intermittent / Ephemeral

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.19 km

N

WA Dept. of Ecology

Pierce County Assessor-Treasurer
Property Summary

2603 SR 509 N FRONTAGE RD

PORT OF TACOMA
0320023062

Tax Description

Section 02 Township 20 Range 03 Quarter 31 THAT POR OF FOLL DESC PROP LY N OF SR 509 N 1/2 OF SW EXC LAWLER ST & EXC FOLL COM AT NW COR OF SW OF SW TH ALG N LI OF SW OF SW N 89 DEG 05 MIN 22 SEC W 260.10 FT TO MON LI OF MILWAUKEE WAY TH N 00 DEG 56 MIN 47 SEC E 463.20 FT TO PROJECTED N R/W LI EAST-WEST RD TH S 89 DEG 59 MIN 06 SEC E ALG SD R/W 1266.39 FT TO POB TH N 11 DEG 17 MIN 12 SEC E 229.08 FT TH S 78 DEG 42 MIN 48 SEC E 564.22 FT TH S 11 DEG 17 MIN 12 SEC W 118.34 FT TO N R/W LI OF EAST-WEST RD TH N 89 DEG 49 MIN 06 SEC W 574.99 FT TO POB EXC THAT POR OF FOLL DESC PROP LY WITHIN NW OF SW SEC 2 COM AT NE COR OF SE OF SE OF SEC 3 TH N 89 DEG 05 MIN 22 SEC W ALG NLY LI OF SD SE OF SE 280.10 FT TO INTER MON LI OF MILWAUKEE WAY TH N 00 DEG 56 MIN 47 SEC E ALG SD MON LI 463.20 FT TO INTER TANGENT OF NLY R/W LI OF EAST-WEST RD PROD TH ON AN ANGLE TO R 89 DEG 14 MIN 45 SEC 531.04 FT ALG EXT NLY TANGENT OF EAST- WEST RD TH ON AN ANGLE TO L OF 78 DEG 00 MIN 00 SEC 45.08 FT TO A PT ON NLY R/W LI OF SD EAST-WEST RD & POB TH CONT NLY ON SD BEARING 325.48 FT TH ON ANGLE TO L OF 80 DEG 49 MIN 15 SEC 636.61 FT TO PT ON ELY R/W LI OF MILWAUKEE WAY TH SELY ALG SD R/W LI 451.07 FT TO INTER NLY R/W LI SD E/W RD 500 FT TO POB EXC POR CYD TO STATE OF WA FOR SR 509 PER ETN 0934258 & 1025757 EASE OF REC OUT OF 3-029 SEG C1660PL 4/22/92BO DC8998BL07-23-93CL DC10/22/99MA DC6/27/00MA

Property Details

Parcel Number	0320023062
Site Address	2603 SR 509 N FRONTAGE RD
Account Type	Real Property
Category	Land and Improvements
Assessment Use Code	4900-OTHER TRANS UTILITIES

Taxpayer Details

Taxpayer Name	PORT OF TACOMA
Mailing Address	PO BOX 1837 TACOMA, WA 98401-1837

Appraisal Details

Value Area	PI2
Appr Acct Type	Industrial
Business Name	TACOMA/TACOMA BELT LINE RAILROAD
Last Inspection	07/01/2022-New Construction
Appraisal Area	8

Related Parcels

Group Account Number	73670
Located On	n/a
Associated Parcels	n/a

Assessed Value

Value Year	2022	**Assessed Total**	24,691,400
Tax Year	2023	**Assessed Land**	18,602,100
		Assessed Improvements	6,089,300
Taxable Value	0		
Tax Code Area	026	**Current Use Land**	0
Tax Code Area Rate	10.798417498142	**Personal Property**	0
Notice of Value Mailing Date	06/24/2022		

Assessment Details

2022 Values for 2023 Tax

Taxable Value	$0
Assessed Value	$24,691,400

Tax Amounts Due

Tax Year	Minimum Due	Total Due
TOTAL	**0.00**	**0.00**

Property Tax Exemptions

Tax Year	2023
Type	Municipal Corp and Misc Taxing Districts
Expiration Date	n/a

Land Details

Land Economic Area	4082
RTSQQ	03-20-02-31
Value Area	PI2
Square Footage	1,926,223
Acres	44.220
Front Foot	0
Electric	Power Installed
Sewer	Sewer/Septic No
Water	Water No

Building 1 Details

General Characteristics

Property Type	Industrial
Condition	Average
Quality	Average
Neighborhood	802
Occupancy	Addon Only Comm
Square Feet	1
Net Square Feet	0
Attached Garage Square Feet	0
Detached Garage Square Feet	0
Carport Square Feet	0
Finished Attic Square Feet	0
Total Basement Square Feet	0
Finished Basement Square Feet	0
Basement Garage Door	0
Fireplaces	0

Built-As

DESCRIPTION	Addon Only Comm
YEAR BUILT	1980
ADJUSTED YEAR BUILT	1980
SQUARE FEET	1
STORIES	1
BEDROOMS	0
BATHROOMS	0
EXTERIOR	n/a
CLASS	n/a
ROOF	n/a
HVAC	None
UNITS	0

Improvement Details

Type	Description	Units
Add On	RR Spurs Med range 80 lb	100,000

Pierce County Assessor-Treasurer
Property Summary

2601 SR509 N FRONTAGE RD

CITY OF TACOMA - TPU
0320023024

Tax Description

Section 02 Township 20 Range 03 Quarter 32 COM AT NW COR OF SW OF SW TH ALG N LI OF SW OF SW N 89 DEG 05 MIN 22 SEC W A DIST OF 260.10 FT TO THE MON LI OF MILWAUKEE WAY TH N 00 DEG 56 MIN 47 SEC E A DIST OF 463.20 FT TO PROJECTED N R/W LI OF EAST-WEST RD TH S 89 DEG 49 MIN 06 SEC E ALG SD R/W LI A DIST OF 1266.39 FT TO POB TH N 11 DEG 17 MIN 12 SEC E A DIST OF 229.08 FT TH S 78 DEG 42 MIN 48 SEC E A DIST OF 564.22 FT TH S 11 DEG 17 MIN 12 SEC W A DIST OF 118.34 FT TO N R/W LI OF EAST-WEST RD TH N 89 DEG 49 MIN 06 SEC W A DIST OF 574.99 FT TO POB SEG F 3992

Property Details

Parcel Number	0320023024
Site Address	2601 SR509 N FRONTAGE RD
Account Type	Real Property
Category	Land and Improvements
Assessment Use Code	4900-OTHER TRANS UTILITIES

Taxpayer Details

Taxpayer Name	CITY OF TACOMA - TPU
Mailing Address	3628 S 35TH ST ABS-2 TACOMA, WA 98409-3115

Appraisal Details

Value Area	PI2
Appr Acct Type	Industrial
Business Name	TACOMA/TACOMA BELTLINE RAILWAY
Last Inspection	07/01/2022-New Construction
Appraisal Area	8

Related Parcels

Group Account Number	n/a
Located On	n/a
Associated Parcels	n/a

Assessed Value

Value Year	2022	**Assessed Total**	2,334,100
Tax Year	2023	**Assessed Land**	1,776,400
		Assessed Improvements	557,700
Taxable Value	0		
Tax Code Area	026	**Current Use Land**	0
Tax Code Area Rate	10.798417498142	**Personal Property**	0
Notice of Value Mailing Date	06/24/2022		

Assessment Details

2022 Values for 2023 Tax

Taxable Value	$0
Assessed Value	$2,334,100

Tax Amounts Due

Tax Year	Minimum Due	Total Due
TOTAL	**0.00**	**0.00**

Property Tax Exemptions

Tax Year	2023
Type	Municipal Corp and Misc Taxing Districts
Expiration Date	n/a

Land Details

Land Economic Area	4082
RTSQQ	03-20-02-32
Value Area	PI2
Square Footage	87,556
Acres	2.01
Front Foot	0
Electric	Power Installed
Sewer	Sewer/Septic Installed
Water	Water Installed

Building 1 Details

General Characteristics

Property Type	Industrial
Condition	Average
Quality	Average
Neighborhood	802
Occupancy	Auto Related
Square Feet	11,980
Net Square Feet	11,980
Attached Garage Square Feet	0
Detached Garage Square Feet	0
Carport Square Feet	0
Finished Attic Square Feet	0
Total Basement Square Feet	0
Finished Basement Square Feet	0
Basement Garage Door	0
Fireplaces	0

Built-As

DESCRIPTION	Service Garage
YEAR BUILT	1966
ADJUSTED YEAR BUILT	1966
SQUARE FEET	7,820
STORIES	1
BEDROOMS	0
BATHROOMS	0
EXTERIOR	n/a
CLASS	Masonry
ROOF	n/a
HVAC	Space Heater
UNITS	0

DESCRIPTION	Office Building
YEAR BUILT	1966
ADJUSTED YEAR BUILT	1985
SQUARE FEET	4,160
STORIES	2
BEDROOMS	0
BATHROOMS	0
EXTERIOR	n/a
CLASS	Masonry
ROOF	n/a
HVAC	Forced Air
UNITS	0

Improvement Details

Type	Description	Units
Add On	Garage C Cls AV SF	2,304
Add On	RR Spurs Med range 80 lb	500

Building 2 Details

General Characteristics

Property Type	Industrial
Condition	Average
Quality	Average
Neighborhood	802
Occupancy	Storage - Material
Square Feet	2,160
Net Square Feet	2,160
Attached Garage Square Feet	0
Detached Garage Square Feet	0
Carport Square Feet	0
Finished Attic Square Feet	0
Total Basement Square Feet	0
Finished Basement Square Feet	0
Basement Garage Door	0
Fireplaces	0

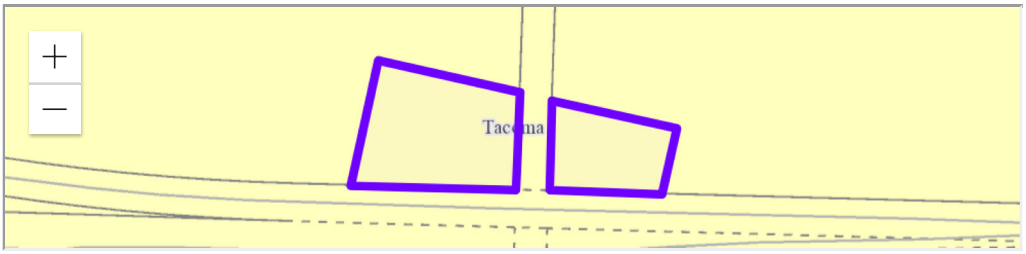
Built-As

DESCRIPTION	Storage - Material
YEAR BUILT	1977
ADJUSTED YEAR BUILT	1977
SQUARE FEET	2,160
STORIES	1
BEDROOMS	0
BATHROOMS	0
EXTERIOR	n/a
CLASS	Metal Frame
ROOF	n/a
HVAC	None
UNITS	0

Sales History

Sorry, no sales available for display

Map



Photos

2021_PRI_3-3-2021_20210303WJ.jpg

FS ID: 4768412

Map facility | Print

Tacoma Public Utilities Beltline Div

2601 SR 509 N FRONTAGE RD TACOMA WA 98421

GIS latitude:
47.2478055903086

GIS longitude:
-122.394066412058

Ecology region:
SWRO

County:
Pierce

Location description:

Legislative district:
27

Congressional district:
9

WRIA:

WRIA:
10

Tribal land:
Y

Alternate names

Also known as
TACOMA DPU BELTLINE DIV
Tacoma Public Utilities Beltline Div

Alternate names

Interactions

Interaction	Interaction description	Ecology program	Ecology program contact	Program ID	Start date	End
Hazardous Waste Generator	Facilities that generate any quantity of a dangerous waste. They may be classified as SQG, MQG, or LQG depending on hazardous waste generated for a given month.	HAZWASTE	(360) 407-6734	WAD988467080	2/21/1989	12/
Emergency/Haz Chem Rpt TIER2	Businesses that store 10,000 pounds or more of a hazardous chemical or 500 pounds or less, depending on the chemical, of an extremely hazardous chemical on site at any one time must report annually. Reports are sent to	HAZWASTE	(360) 407-6171	WAD988467080	1/1/1993	

	the State Emergency Response Commission [represented by Ecology] Local Emergency Planning Committees, and local fire departments for emergency planning. [product, not waste]					
Hazardous Waste Planner	Under Chapter 173-307 WAC, facilities that report under Section 313 of the Emergency Planning/Community Right-To-Know Act (EPCRA), or that generate more than 2,640 pounds of hazardous waste per year, must prepare Pollution Prevention Plans.	HAZWASTE	(360) 407-6731	WAD988467080	1/1/1993	12/
Underground Storage Tank	Any one or combination of tanks (including connecting underground pipes) that is used to contain regulated substances and has a tank volume of ten percent or more beneath the surface of the ground. This term does not include any of the exempt UST systems specified in WAC 173-360A-0110(1) or any piping connected	TOXICS	(360) 407-7224	3025	6/8/1998	3/2

	thereto. See WAC 173-360A.					
Haz Waste Management Activity	Facilities that are required to have an EPA/State ID number but who do not generate and/or manage hazardous waste (XQG generator status). This includes transporters, used oil recycler's, and dangerous waste fuel marketers and burners.	HAZWASTE	(360) 407-6734	WAD988467080	12/31/2014	12/
Hazardous Waste Generator	Facilities that generate any quantity of a dangerous waste. They may be classified as SQG, MQG, or LQG depending on hazardous waste generated for a given month.	HAZWASTE	(360) 407-6734	WAD988467080	12/31/2016	
State Cleanup Site	A site is being cleaned up under state regulations. Regulations include Model Toxics Control Act or its predecessors.	TOXICS	(360) 407-7224		9/5/2020	

Interactions for this facility/site

NAICS codes

Code	Description

482	Rail Transportation
482112	Short Line Railroads

NAICS codes for this facility

SIC codes

Code	Description
4013	SWITCHING AND TERMINAL SERVICES

SIC codes for this facility

ROBINSON NOBLE

TACOMA PUBLIC UTILITIES
TACOMA RAIL MULTIPLE LOCATION SPILL
TACOMA, WASHINGTON

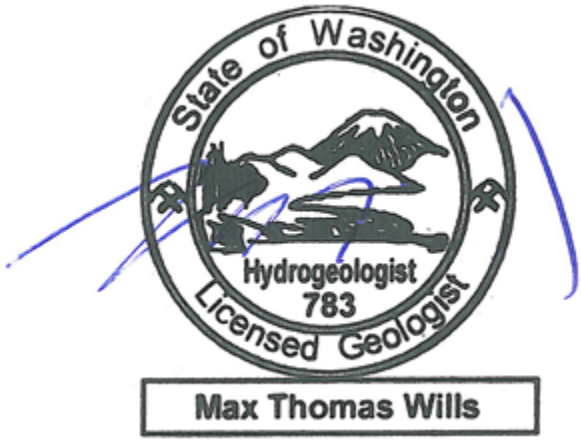
SOIL REMEDIATION

JANUARY 26, 2023

by

John F. Hildenbrand
Principal Environmental Scientist

Max T. Wills, LHG
Principal Hydrogeologist



2105 South C Street
Tacoma, Washington 98402
P: 253.475.7711 | F: 253.472.5846

www.robinson-noble.com

17625 130th Avenue NE, Suite 102
Woodinville, Washington 98072
P: 425.488.0599 | F: 425.488.2330

Tacoma Public Utilities
Tacoma Rail Multiple Location Spill, Tacoma, Washington
ERTS# 718615
Soil Remediation
January 2023

FIGURES

APPENDICES

Tacoma Public Utilities
Tacoma Rail Multiple Location Spill, Tacoma, Washington
ERTS# 718615
Soil Remediation
January 2023

1.0 Background

1.1 Purpose and Objectives

The activities described in this report were conducted to remediate soils that were impacted by a release of oil from a leaking valve on an operating locomotive. The subject locomotive is owned and maintained by Tacoma Rail; Tacoma Public Utilities (TPU) oversees environmental compliance for Tacoma Rail. According to information provided by TPU, the locomotive traveled along rail lines maintained by several different entities, including Tacoma Rail, the Port of Tacoma, Union Pacific Railroad, and Sound Transit. The soil remediation documented in this report was performed as an independent remedial action as described in WAC173-340-515 (Model Toxics Control Act).

1.2 Site Location

The subject spill originated at the Tacoma rail yard located at 2601 State Route 509 North, S. Frontage Road (referred to herein as Rail Headquarters) and ended at 5436 S. Washington Street on a siding owned by X-CEL Feeds. Both locations and the rail lines in between, are located in Tacoma, Washington. The relative locations of the beginning and endpoints and the rail path in between are shown on the Vicinity Map, presented as Figure 1.

1.3 Release History

It is our understanding that the spill occurred in October 2022. The cause was a leaking valve on a locomotive that dripped oil on the rail lines between Rail Headquarters and the X-CEL Feeds siding. As noted in Section 1.1, the locomotive traveled from Rail Headquarters along rail-lines maintained by Tacoma Rail, the Port of Tacoma, Union Pacific Railroad, and Sound Transit on its way to X-CEL Feeds, where the leaking valve was ultimately discovered.

Prior to Robinson Noble's involvement with the cleanup effort, Tacoma Rail personnel inspected the route, including the railroad bridge over the Puyallup River. Except for minor staining on railroad ties on the railway bridge, Tacoma Rail personnel reported that there was no observable evidence of staining related to the release at any of the transient locations along the track other than at the endpoints of the release (Rail Headquarters and the X-CEL Feeds siding; see Figure 1). Tacoma Rail, upon discovering the release, reported that they shut down the locomotive, deployed absorbent pads at the origin and terminal locations of the release, and then engaged US Ecology (formerly NRC Environmental Services) to clean the ties and rails on the Puyallup River Bridge. Tacoma Rail personnel reported that the "oil drips" and stains that were cleaned from the bridge were not distinguishable from older drips and/or oil that is purposely applied to the rails for standard operations and maintenance; regardless, all observable oil was removed from the rails and ties on the bridge. Tacoma Rail personnel also reported that they

inspected the waterway (Puyallup River) in the vicinity of the bridge and did not observe any impacts.

On November 3, 2022, Robinson Noble personnel, along with personnel from Tacoma Rail, conducted an additional inspection of the spill from its origin point to its terminus. We did not observe visual evidence of releases beyond de minimis threshold at locations other than the origin and terminal points. Tacoma Rail also notified the entities controlling the various railroad rights-of-way noted in Section 1.1. The Port of Tacoma, and Union Pacific Railroad did not respond indicating any concerns about releases along their respective sections. Sound Transit provided an email (Appendix B) indicting that they independently inspected their portion of the subject railway and did not observe any conditions warranting further attention.

2.0 Site Activities

2.1 Site Remediation

On November 2, 2022, Robinson Noble began remediation of the release at the origin location (Rail Headquarters) and completed remediation of this area on November 3. Due to railroad traffic issues, cleanup of the terminal spill location (X-CEL Feeds) was completed on November 15. Visibly impacted ballast and soils at both locations were vacuum-excavated by US Ecology. The final extent of remedial excavation at Rail Headquarters is shown on Figure 2. The final extent of the remedial excavation at X-CEL Feeds is shown on Figure 3.

During remedial excavation, a Robinson Noble geologist field screened soils for odor, sheen, and overall appearance. Remedial excavation proceeded laterally and vertically until field screening indicated that soil impacts had been removed. Upon reaching the apparent limits of the soil impacts, confirmation samples were collected at the margins of the excavation to verify that impacted soils had been sufficiently remediated. All soil samples collected during the remediation effort were analyzed for oil-range petroleum hydrocarbons using on an on-site mobile laboratory provided by Libby Environmental, Inc. (Libby) at the time of remediation. Based on the nature of the release, the Safety Data Sheet (SDS) for the oil, and the likely presence of oil used for track maintenance and operation, oil-range petroleum hydrocarbons were determined to be the priority contaminant of concern (COC) for this cleanup.

Figure 2 shows the final extent of the excavation and the collection locations of 10 confirmation soil samples for the Rail Headquarters area. Laboratory analyses of all confirmation samples collected from the final margins of this remedial excavation were below the applicable Model Toxic Control Act (MTCA) soil cleanup level except for the eastern end of the excavation area that abuts a portion of a metal spill containment system. Because of operational constraints, the spill containment system could not be compromised by the excavation so further remedial excavation to the east (below the spill containment system) was not feasible. As shown on Figure 2, the final Rail Head Quarters remedial excavation covered an area of approximately 10 feet by 28 feet and extended to a maximum depth of approximately 2.3 feet. This equates to an excavated volume of approximately 24.2 cubic yards.

Figure 3 shows the final extent of the excavation and the collection locations of 12 confirmation soil samples for the X-CEL Feeds area. Laboratory analyses of all confirmation samples collected from the final margins of this remedial excavation were below the applicable MTCA soil cleanup level. As shown on Figure 3, the final X-CEL Feeds remedial excavation covered an area of approximately 100 feet by 6 feet and extended to a maximum depth of approximately 1 foot. This equates to an excavated volume of approximately 22.2 cubic yards.

The excavated soils for both the Rail Headquarters and X-CEL Feeds areas consisted of gravel railroad ballast and native sands and gravels. No groundwater was encountered during remedial excavation.

2.2 Disposal

US Ecology transported the excavated soils to PRS Group, Inc., a permitted disposal facility located in Tacoma, Washington. An estimated of 69.6 tons of PCS (petroleum-contaminated soil), based on the calculated volume of soil excavated, were transported from the site and received by the facility.

2.3 Restoration

Once it was determined that the impacted soil had been sufficiently remediated to the degree feasible at both locations, the remedial efforts were concluded. It is our understanding that the excavation would be backfilled at a later time by Tacoma Rail and/or TPU personnel with clean, imported gravel. Robinson Noble did not observe backfill activities.

3.0 Sample Collection and Laboratory Results

3.1 Sample Collection

All soil samples collected during this project were placed directly into laboratory-supplied, manufacturer-cleaned four-ounce glass jars with Teflon®-lined plastic lids. Following collection, all samples were delivered directly to the on-site mobile laboratory for same-day analyses of oil-range petroleum hydrocarbons.

3.2 Laboratory Methods (Target Analytes) and Detection Limits

For this project the primary analyte of concern was oil-range petroleum hydrocarbons (TPH-Oil). During the site remediation, an on-site mobile laboratory provided by Libby analyzed the collected soil samples for oil-range petroleum hydrocarbons using Ecology Test Method NWPH-Dx/Dx-Extended.

3.3 Laboratory Results

The laboratory results for soil samples collected during the remedial excavation of the Rail Headquarters and X-CEL Feeds areas are presented in Tables 1 and 2, respectively. The complete laboratory reports are presented in Appendix A. Samples listed as performance samples represent soil that was ultimately removed from the excavation. Confirmation samples represent soil concentrations that remain in place at the excavation boundaries.

Table 1. Soil Analytical Results (mg/kg) for Rail Headquarters Area

Map /Sample ID	Sample Type	Depth (feet)	Sample Location	TPH-Oil*
1	Confirmation	1	West sidewall	<250
2	Confirmation	1.5	Southwest sidewall	690
3	Confirmation	1	North bottom	<250
4	Performance	1	Southeast sidewall	**16,000**
5	Confirmation	1.33	Bottom	<250
6	Confirmation	1.33	Sidewall	<250
7	Performance	1.33	Bottom	**260,000**
8	Confirmation	2.25	Bottom	<250

Map /Sample ID	Sample Type	Depth (feet)	Sample Location	TPH-Oil*
9	Confirmation	1.33	Bottom	330
10	Confirmation**	1.5	East sidewall	**22,000**
11	Confirmation	1.5	Southeast sidewall	<250
12	Confirmation	1.33	Northeast sidewall	<250
MTCA Method A Cleanup Level for Unrestricted Land Use				**2,000**

***Bolded Values** indicate the detected concentration exceeds the applicable MTCA soil cleanup level.
**Denotes sample collected adjacent to spill containment system at the eastern limits of excavation

As shown in Table 1, all of the confirmation samples collected from the margins of the Rail Headquarters remedial excavation, with the exception of Sample No. 10, show that the excavation activities reduced TPH-Oil concentrations to below the MTCA Method A unrestricted land-use concentration of 2,000 mg/kg. Sample No. 10, located at the eastern end of the excavation, is adjacent to a metal grated portion of track-spill containment related to locomotive fueling operations.

Table 2. Soil Analytical Results (mg/kg) for X-CEL Feeds Area

Map /Sample ID	Sample Type	Depth (feet)	Sample Location	TPH-Oil
1	Confirmation	1	Bottom	<250
2	Confirmation	1	Bottom	<250
3	Confirmation	1	Bottom	<250
4	Confirmation	1	Bottom	990
5	Confirmation	1	Bottom	<250
6	Confirmation	1	Bottom	810
7	Confirmation	1	Bottom	<250
8	Confirmation	1	Bottom	<250
9	Confirmation	1	Bottom	400
10	Confirmation	1	Bottom	<250
11	Confirmation	1	Bottom	460
12	Confirmation	1	Bottom	<250
MTCA Method A Cleanup Level for Unrestricted Land Use				**2,000**

As shown in Table 2, all of the confirmation samples collected from the margins of the X-CEL Feeds remedial excavation show that the excavation activities reduced TPH-Oil concentrations to below the MTCA Method A unrestricted land-use concentration of 2,000 mg/Kg.

4.0 Quality Assurance/Quality Control

4.1 Field QA/QC

Documentation including sample logs, custody forms, and field logs were reviewed prior to samples being delivered to the laboratory. Review was done for completeness, accuracy, and consistency. No discrepancies were noted during this project.

4.2 Chain-of-Custody

For site remediation, a chain-of-custody form accompanied samples submitted to the laboratory. The chain-of-custody form was in order as noted in the analytical narrative from the contractor laboratory. No discrepancies were noted during this project.

4.3 Laboratory QA/QC

A narrative regarding quality assurance and quality control is provided with each of the laboratory analysis reports. These narratives indicates that quality control is within acceptable limits.

5.0 Project Summary and Conclusions

As documented in this report, 69.6 tons of soil impacted by a release of lubricating oil from a leaking valve were removed from the two endpoints of the spill site and disposed of at PRS. The analysis of soil confirmation samples collected from the final margins of the remedial excavation confirmed oil range petroleum hydrocarbon concentrations are all below applicable cleanup limits with the exception of one location at the origin (Rail Headquarters) end of the release. This exception is adjacent to an active spill containment system associated with locomotive fueling and additional excavation was not possible. Based on the analytical results, the soil impacts were successfully remediated to the maximum extent practicable.

6.0 References

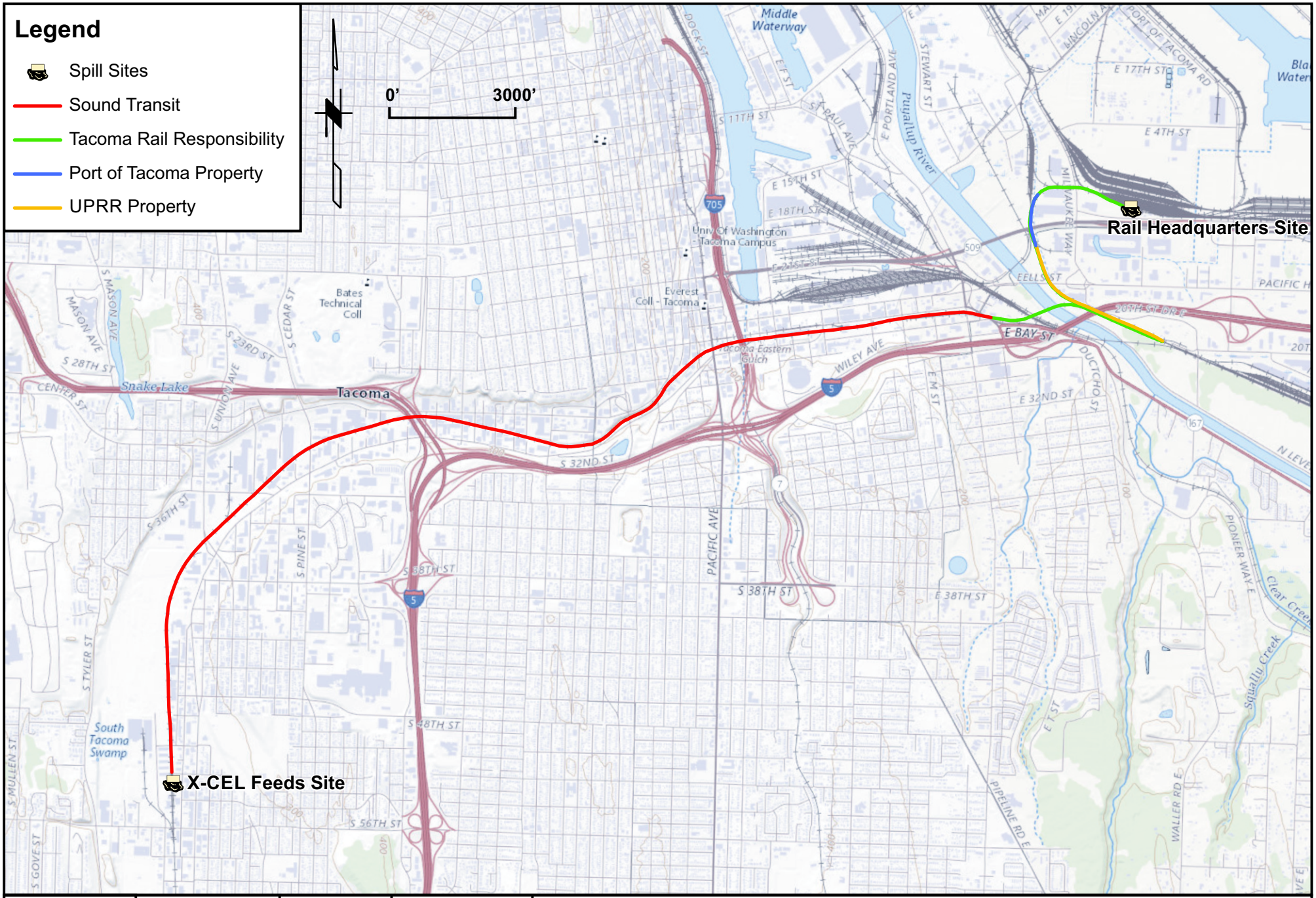
Washington State Department of Ecology, Toxics Cleanup Program, Model Toxics Control Act Cleanup Regulation, Chapter 173-340 WAC, amended February 2001, Publication No. 94-06

Washington State Department of Ecology, Toxics Cleanup Program, Cleanup levels and risk calculations (CLARC II) update, Publication No. 94-145

Chapter 70.105D RCW, Hazardous Waste Cleanup - Model Toxics Control Act

Washington Department of Ecology, Toxics Cleanup Program, Guidance on sampling and data analysis methods, Publication No. 94-49

Washington State Department of Ecology, Analytical methods for petroleum hydrocarbons, Publication No. ECY 97-602



ROBINSON NOBLE

Note: Basemap taken from USGS Tacoma South Quadrangle

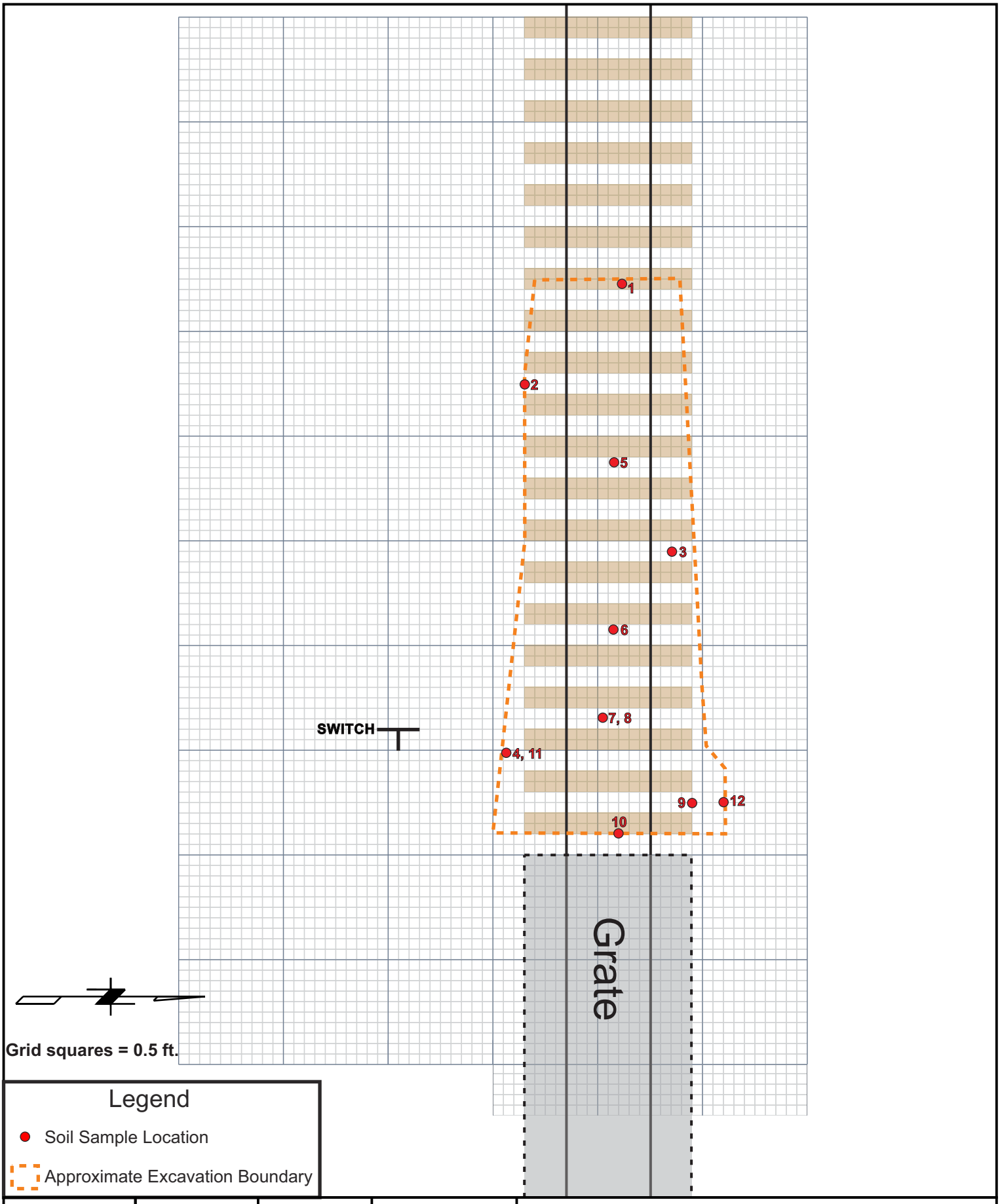
PM: JFH
January 2023
1922-361A

Pierce County
T 20 N/R 2,3 E
Scale 1” = 3000’

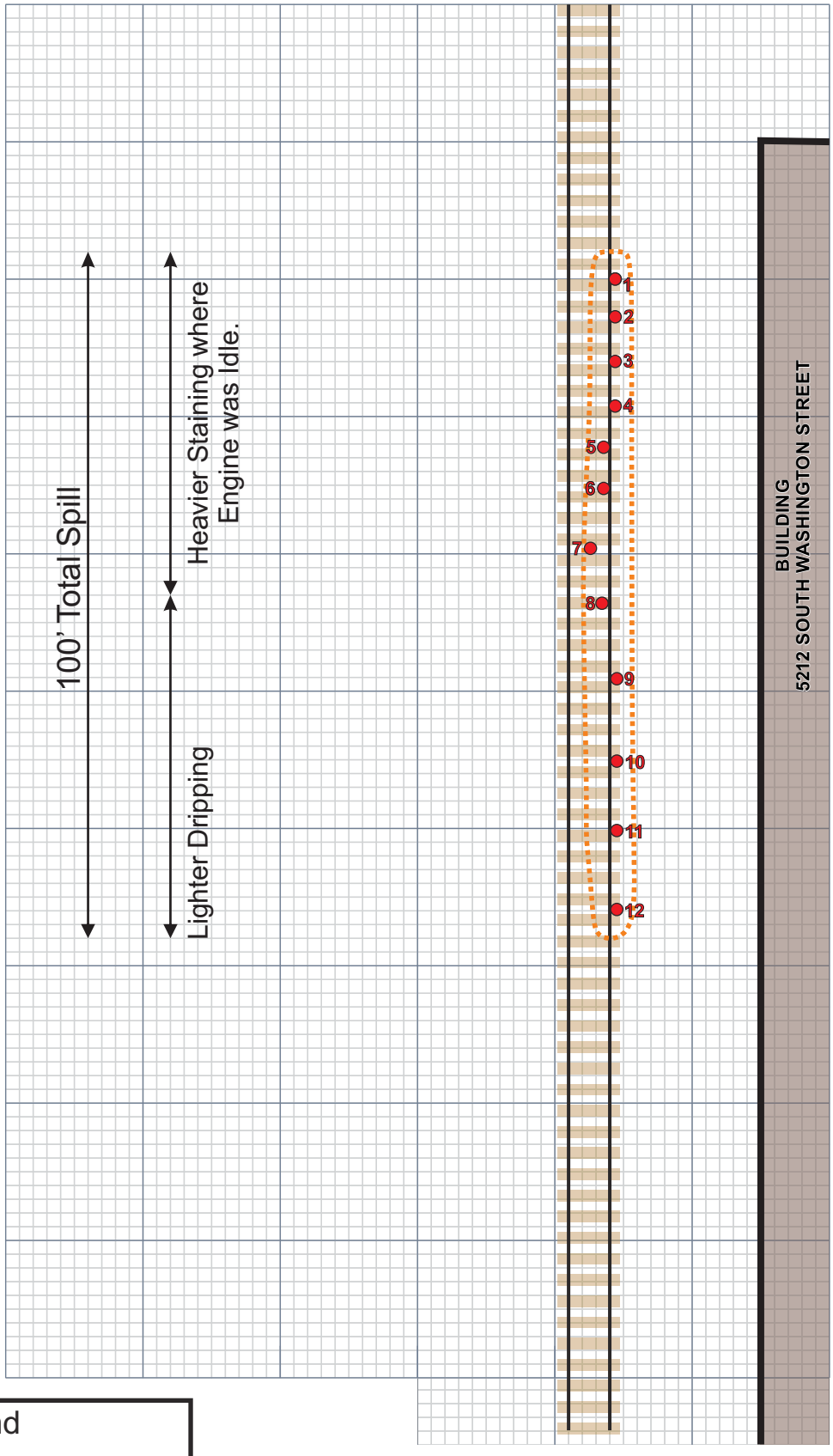
Figure 1

Vicinity Map

Tacoma Rail: Multipoint Spill



ROBINSON NOBLE	Note:	PM: JFH January 2023 1922-361A	Pierce County T 20 N/R 03 E - 02 Grid Square = 0.5'	Figure 2 Rail Headquarters Sample Location Map Tacoma Rail: Multipoint Spill



Grid squares = 2 ft.

Legend

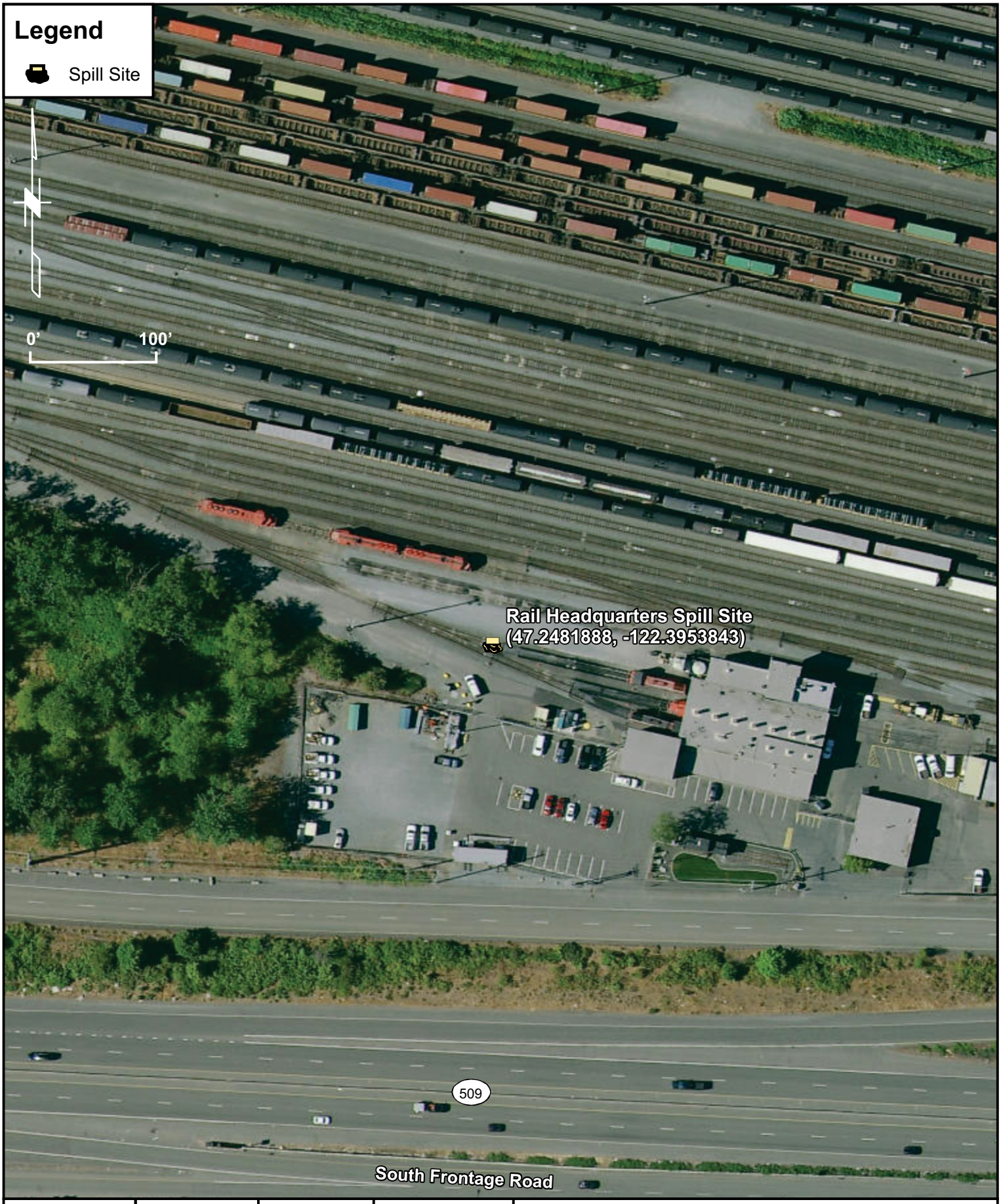
- Soil Sample Location
- Approximate Excavation Boundary

ROBINSON NOBLE	Note: Approximate Depth of Excavation 9"-12"	PM: JFH January 2023 1922-361A	Pierce County T 20 N/R 03 E - 02 Grid Square = 2'

Figure 3

X-CEL Feeds Sample Location Map

Tacoma Rail: Multipoint Spill



ROBINSON NOBLE	Note: Basemap from Pierce County GIS 2021 Aerials	PM: JFH April 2023 1922-361A	Pierce County T 20 N/R 03 E - 02 Scale 1” = 100’	Figure 4 Rail Headquarters Spill Location Map Tacoma Rail: Multipoint Spill

ROBINSON NOBLE	Note: Basemap from Pierce County GIS 2021 Aerials	PM: JFH April 2023 1922-361A	Pierce County T 20 N/R 02 E - 40 Scale 1” = 100’	Figure 5 X-Cell Feed Spill Location Map Tacoma Rail: Multipoint Spill

APPENDIX A

Libby Environmental, Inc.
3322 South Bay Road NE • Olympia, WA 98506-2957

November 18, 2022

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the TPU - Multi Point Spill Project located in Tacoma, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@gmail.com

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 11/15/2022 Page: 1 of 1

Client: ROBINSON NOBLE
Project Manager: JOHN HILDENBRAND
Address: 2105 S C St
Project Name: TPU - MULTI POINT SPILL
City: TACOMA State: WA Zip: 98402
Location: X-CEL FEED City, State: TACOMA WA
Phone: (253) 475-7711 Fax:
Collector: MTN Date of Collection: 11/15/2022
Client Project # 1922-361A
Email: MWILLS@ROBINSON-NOBLE.COM

	Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx Ext. (O/L)	PAH 8270	PCB's 8082	MTCA 5 Metals			Field Notes
1	X-CEL-1	1	1025	SOIL	4oz							X							
2	X-CEL-2	1	1030									X							
3	X-CEL-3	1	1035									X							
4	X-CEL-4	1	1050									X							
5	X-CEL-5	1	1055									X							
6	X-CEL-6	1	1100									X							
7	X-CEL-7	1	1130									X							
8	X-CEL-8	1	1135									X							
9	X-CEL-9	1	1140									X							
10	X-CEL-10	1	1210									X							
11	X-CEL-11	1	1215									X							
12	X-CEL-12	1	1220									X							
13																			
14																			
15																			
16																			
17																			

Relinquished by: MTN Date / Time 11/15/22 1430 Received by: Date / Time 11/15/22 1430

Relinquished by: Date / Time Received by: Date / Time

Relinquished by: Date / Time Received by: Date / Time

Sample Receipt:

Good Condition?	
Cold?	
Seals Intact?	
Total Number of Containers	

Remarks: Mobile Lab
EIM
STD TURN

TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: *In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a cout of law.*

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

TPU - MULTI POINT SPILL PROJECT
Robinson Noble
Tacoma, Washington
Libby Project # L22K075
Client Project # 1922-361A

Analyses of Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Oil (mg/kg)
Method Blank	11/15/2022	102	nd
X-CEL-1	11/15/2022	112	nd
X-CEL-2	11/15/2022	115	nd
X-CEL-3	11/15/2022	109	nd
X-CEL-4	11/15/2022	135	990
X-CEL-5	11/15/2022	101	nd
X-CEL-5 Dup	11/15/2022	101	nd
X-CEL-6	11/15/2022	108	810
X-CEL-7	11/15/2022	109	nd
X-CEL-8	11/15/2022	101	nd
X-CEL-9	11/15/2022	113	400
X-CEL-10	11/15/2022	115	nd
X-CEL-11	11/15/2022	111	460
X-CEL-12	11/15/2022	108	nd
X-CEL-12 Dup	11/15/2022	108	nd
Practical Quantitation Limit			250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.
3322 South Bay Road NE • Olympia, WA 98506-2957

November 4, 2022

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the TPU Rail Multi Point Spill Project located in Tacoma, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@gmail.com

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.com

L22K011

Date: 11/2/22 Page: 1 of 1

Client: Robinson Noble
Project Manager: John Hildenbrand
Address: 2105 SC St
Project Name: TPW rail multi point spill
City: Tacoma State: WA Zip: 98402
Location: Tacoma rail dept City, State: Tacoma WA
Phone: 253-475-7711 Fax:
Collector: KAT Date of Collection: 11/2/22
Client Project # 1922-361A
Email: kthomas@robinson-noble.com

	Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx (0.1)	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270	Field Notes
1	1		1000	Soil	JAR						X							
2	2		1005	"	"						X							
3	3		1010	"	"						X							
4	4		1015	"	"						X							
5	5		1020	"	"						X							
6	6		1025	"	"						X							
7	7		1030	"	"						X							
8	8																	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by:	Date / Time	Received by:	Date / Time
[signature]	11/2/22 11:04	[signature] Paul Bunk	11/2/22 1104
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N
Cooler Temp.		°C
Sample Temp.		°C
Total Number of Containers		

Remarks:
ML

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

TPU RAIL MUTI POINT SPILL PROJECT
Robinson Noble
Tacoma, Washington
Libby Project # L22K011
Client Project # 1922-361A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Oil (mg/kg)
Method Blank	11/2/2022	99	nd
1	11/2/2022	100	nd
2	11/2/2022	134	690
3	11/2/2022	124	nd
4	11/2/2022	106	16000 E
5	11/2/2022	105	nd
5 Dup	11/2/2022	127	nd
6	11/2/2022	124	nd
7	11/2/2022	int	260000 E
Practical Quantitation Limit			250

"E" Reported result is an estimate because it exceeds the calibration range.
"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.
3322 South Bay Road NE • Olympia, WA 98506-2957

November 8, 2022

John Hildenbrand
Robinson Noble
2105 South C Street
Tacoma, WA 98402

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the TPU Rail Multi Point Spill Project located in Tacoma, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@gmail.com

Libby Environmental, Inc.

Chain of Custody Record

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Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

L22K016

Date: 11/3/22 Page: 1 of 1

Client: RN

Project Manager: TPU Rail Multi Point Spill

Address: 2105 S C St

Project Name: John Hildenbrand

City: Tacoma State: WA Zip: 98402

Location: City, State: Tacoma WA

Phone: 253-475-7711 Fax:

Collector: Kari Thomas Date of Collection: 11/3/22

Client Project # 1922-361A

Email: kthomas@robinson-noble.com

Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx (oil)	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270			Field Notes
1 8	27"	910	Soil	JAR					X										
2 9	16"	930							X										
3 10 (unlast)	18"	940							X										
4 11	19"	953							X										
5 12	16"	1130							X										
6																			
7																			
8																			
9																			
10																			
11																			
12																			
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16																			
17																			

Relinquished by:	Date / Time	Received by:	Date / Time
[signature]	11/3/22 1235	[signature]	11/3/22 1235
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N
Cooler Temp.		°C
Sample Temp.		°C
Total Number of Containers		

Remarks:

ML

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

TPU RAIL MUTI POINT SPILL PROJECT
Robinson Noble
Tacoma, Washington
Libby Project # L22K016
Client Project # 1922-361A

Analyses of Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Oil (mg/kg)
Method Blank	11/3/2022	112	nd
8	11/3/2022	112	nd
9	11/3/2022	114	330
10	11/3/2022	133	22000
11	11/3/2022	115	nd
11 Dup	11/3/2022	117	nd
12	11/3/2022	127	nd
Practical Quantitation Limit			250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

APPENDIX B

From: Martin, Bonnie
To: John F. Hildenbrand
Subject: Fw: Oil Leak
Date: Wednesday, November 02, 2022 1:44:35 PM
Attachments: image001.png

FYI - email in chain below from Sound Transit.

Bonnie Martin
Senior Environmental Specialist
Tacoma Public Utilities
3628 South 35th Street
Tacoma, WA 98409
Phone: (253) 502-8566
Mobile: (253) 254-4990
bmartin3@cityoftacoma.org

From: Kellem, Kyle <kkellem@cityoftacoma.org>
Sent: Wednesday, November 2, 2022 11:46 AM
To: Matheson, Alan <amatheson@cityoftacoma.org>; Martin, Bonnie <BMartin3@cityoftacoma.org>
Cc: Adams, Jeromy <JAdams2@cityoftacoma.org>
Subject: FW: Oil Leak

FYI.

Kyle Kellem
Roadmaster / Emergency Manager
Tacoma Rail | Tacoma Public Utilities
253-377-3554

From: Gatliff, Brandon <brandon.gatliff@soundtransit.org>
Sent: Wednesday, November 2, 2022 10:42 AM
To: Kellem, Kyle <kkellem@cityoftacoma.org>
Cc: Moore, Nelson <nmoore@stacywitbeck.com>; kirvin <kirvin@stacywitbeck.com>; Young, Martin <martin.young@soundtransit.org>
Subject: Oil Leak

Kyle,

We have inspected the ST Tracks from Portland Ave to Excel Feed (MP 0.9 to MP 6.0) in order to assess the oil leak that your locomotive experienced on 10/31/22. There is not an amount of oil on our tracks that we are concerned with and will require no clean up. I will await your final report for

the clean up that you will be completing on the Industry track at Excel Feed.

Thank you,

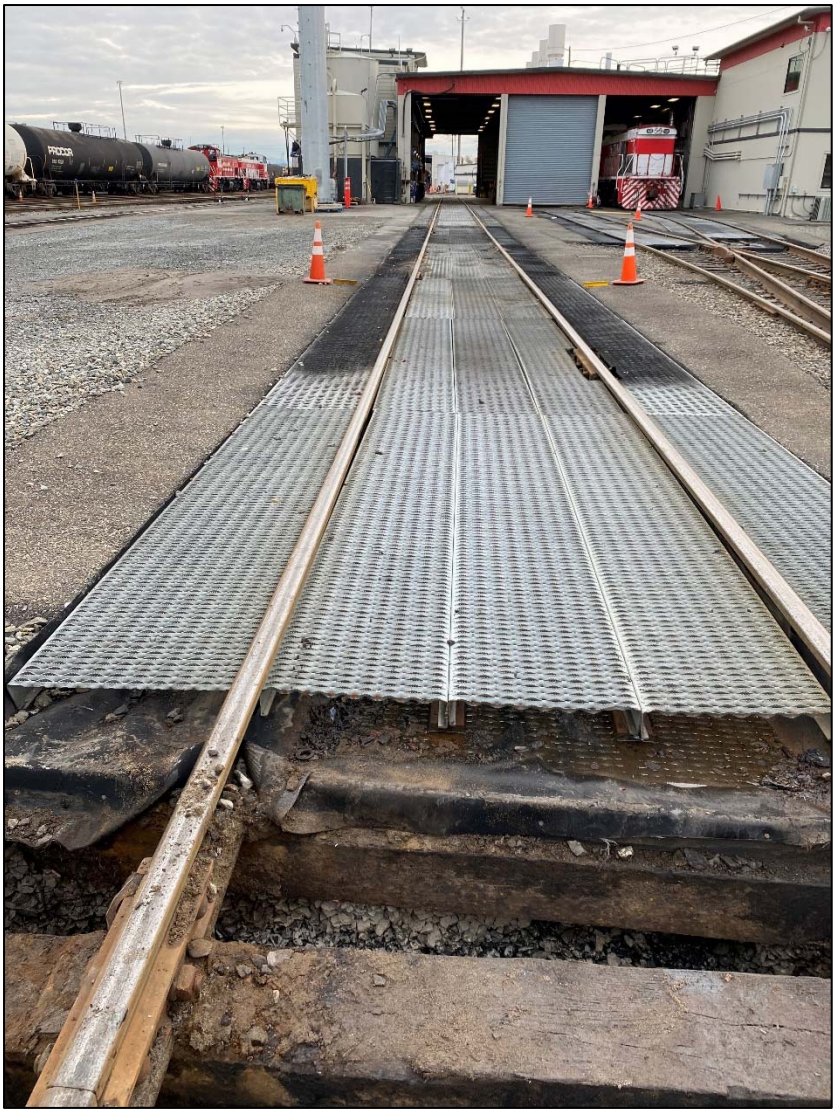
Brandon Gatliff
MOW Superintendent
Sounder Operations Department
Sound Transit
206-850-6985

APPENDIX C

Subject locomotive at X-CEL Feeds siding

Spill area at Rail Headquarters

Cleanup effort at Rail Headquarters



Rail Headquarters, view looking east at the spill containment system

X-CEL Feeds siding, view looking south

Typical extent of release at X-CEL Feeds siding

Puyallup River Bridge, view looking west during second inspection

Close up of rail and ties on Puyallup River Bridge during second inspection