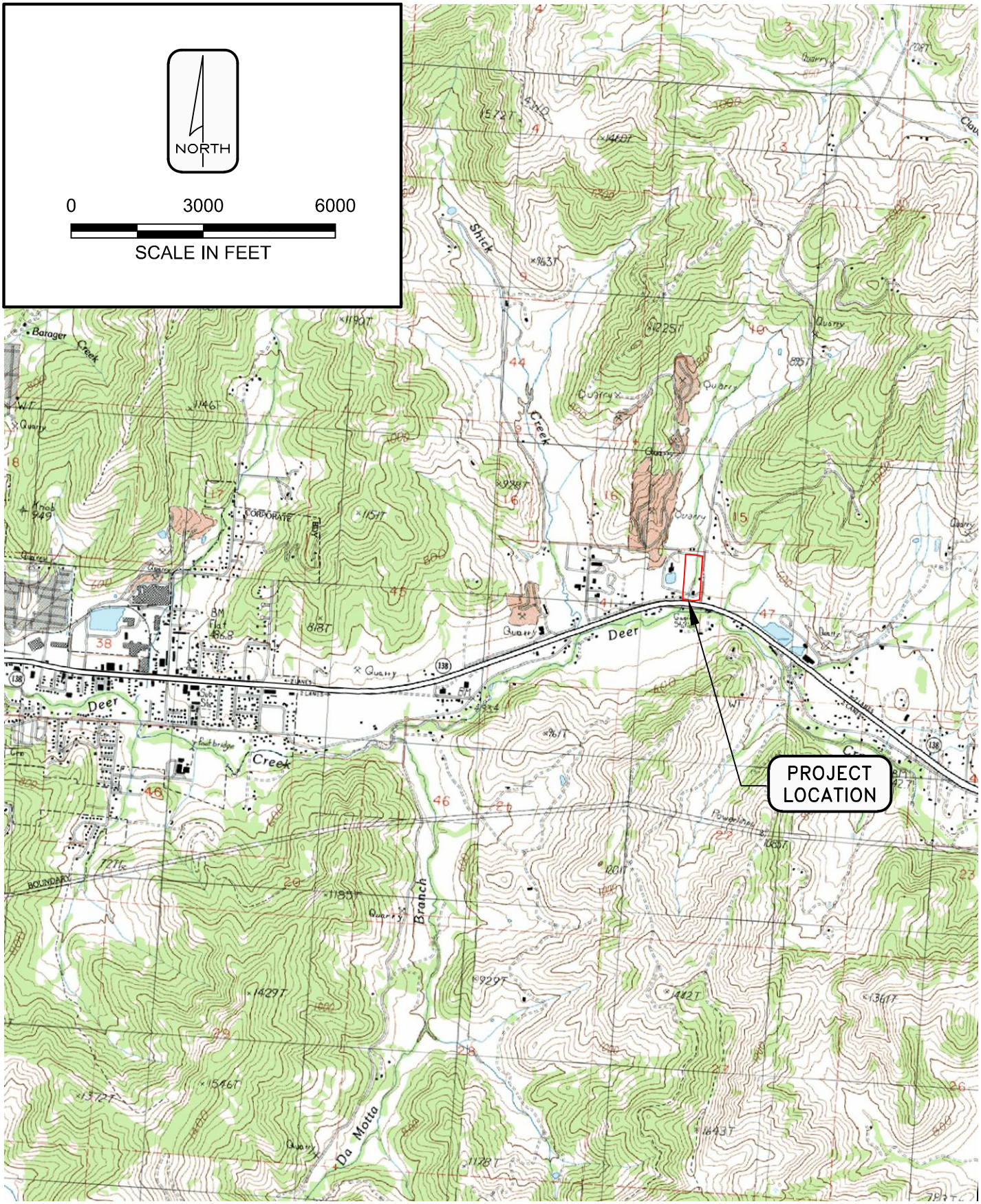
FIGURES



THE GALLI GROUP
GEOTECHNICAL CONSULTING
612 NW 3rd Street
Grants Pass, OR 97526

VICINITY MAP

152 SUNSHINE ROAD
ROSEBURG, OREGON

DATE: FEBRUARY 2021
JOB NO: 02-5762-03
REV: 1/27/2021 2:58 PM
PREPARED BY: BD
5762-03 Phase I ESA Figures.dwg

FIGURE: 1

FIGURE 2

SUNSHINE ROAD

N. UMPQUA HIGHWAY

N. UMPQUA HIGHWAY

BUILDING 'A'

BUILDING 'B'

BUILDING 'C'

BUILDING 'D'

CLUBHOUSE

BBQ PAVILION

SPLASH PAD

MAIL CENTER

BIKE STORAGE

TRASH

TRANSFORMER

FUTURE DOG PLAY AREA

SWALE/ DETENTION POND

CREEK

EL= 540.00

EL= 542.50

TYPE A UNIT

2HC

LEGEND

ACCESSIBLE ROUTE TO PUBLIC WAY

1 A0.02 SITE PLAN

SCALE: 1"=30'-0"

0' 15' 30' 60'

Otak

Otak Architects, Inc.
808 SW Third Avenue, Suite 300
Portland, OR 97204
main 503.287.6825
www.otak.com

WISHCAMPER
131 SOUTH HIGGINS, SUITE P-1
MISSOULA, MT 59802
www.wishcamperpartners.com

STAMP

REGISTERED ARCHITECT
3720
BRIAN R. FLEENER
2-4-21
PORTLAND, OR
STATE OF OREGON

CONSULTANT

SUNSHINE ROAD APARTMENTS

ROSEBURG, OREGON

SITE PLAN

TITLE

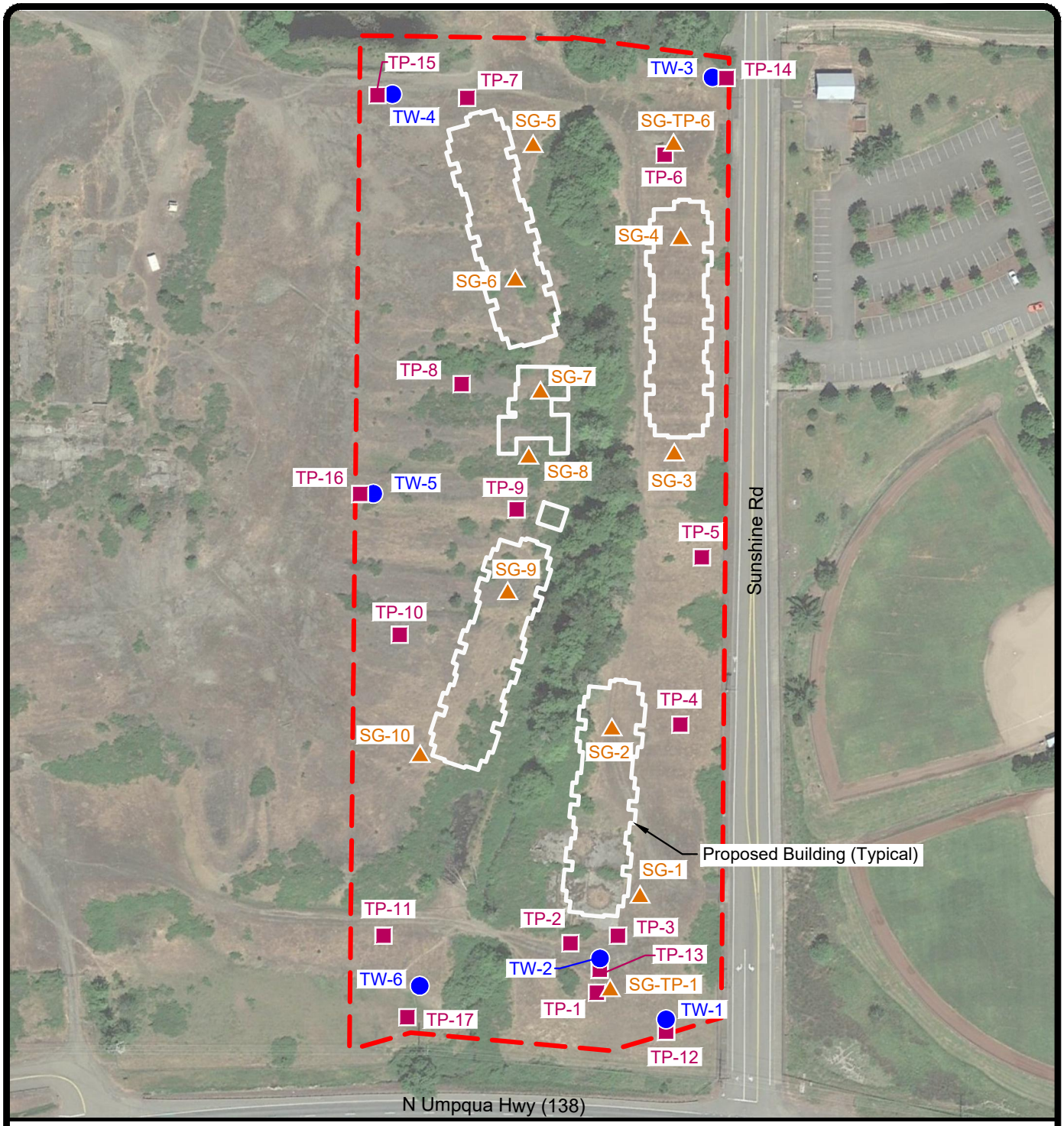
#	DATE	DESCRIPTION

REVISIONS	
AP, RH, WY, CD, ACP	DS, MN, GG
DRAWN BY	CHECK BY
CD - 100%	
STATUS	
1/11/2021	
DATE	
19725	
PROJECT NUMBER	

A0.02

Plot Date: 2/2/2021 8:33:53 PM

Revit File: C:\Users\wyney\Documents\19725_Sunshine Rd (Roseburg) - APARTMENTS_v19_Wayne.Yoshimura@otak.com.rvt



SOURCE: Google Earth (2019)

FIGURE 3

LEGEND

- Approximate Site Boundary
- TP-1 — Approximate Test Pit Locatiion
- TW-1 — Approximate Temporary Well Location
- SG-1 — Approximate Shallow Soil Gas Sample Location

N
W E
S

SCALE FEET

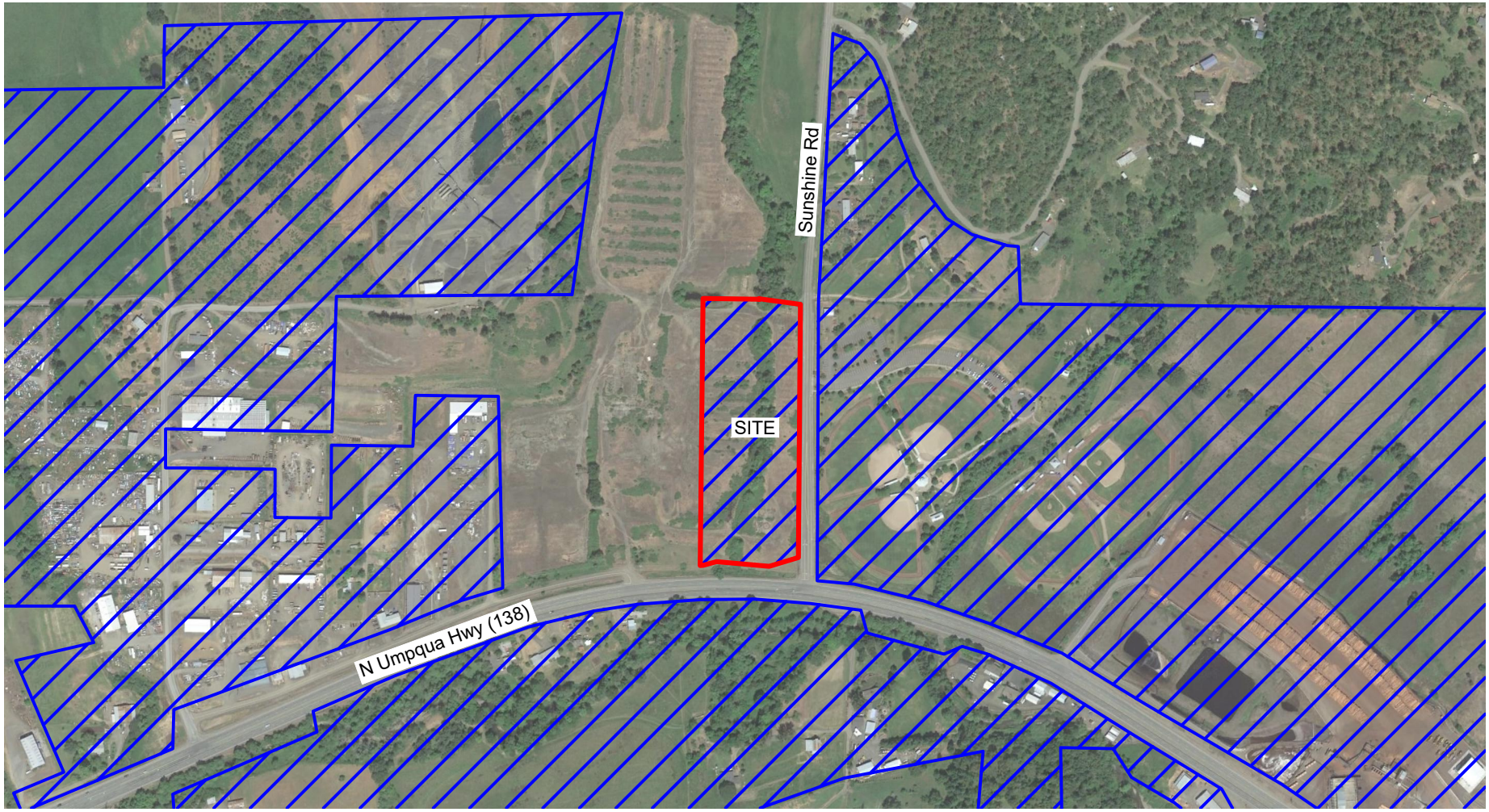
0 150 300

ALPINE ENVIRONMENTAL CONSULTANTS, LLC

DATE: 4/10/21 DRAWN BY: SM

Sample Location Map
Phase II ESA
152 Sunshine Road
Roseburg, Oregon

FIGURE 4



LEGEND

Approximate Municipal Water Coverage Area

Aproximate Site Boundary

SCALE FEET

0 600 1,200

N W E S

ALPINE ENVIRONMENTAL CONSULTANTS, LLC

DATE: 4/10/21 DRAWN BY: SM

Municipal Water Coverage Map
Phase II ESA
152 Sunshine Road
Roseburg, Oregon

ATTACHMENT 1

TABLES

Table 1. Soil Samples Analytical Results - Total Petroleum Hydrocarbons (TPHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
TPHs (mg/kg) **DEQ Method NWTPH-Dx with Silica Gel Cleanup & NWTPH-Gx**													
Diesel-range	2,200	4,600	>Max	>Max	>Max	9,500	1,100	35.0U	30.2U	27.0U	26.5U	27.6U	25.0U
Oil-range	2,200	4,600	>Max	>Max	>Max	9500	1,100	**311**	**65.6**	54.1U	52.9U	55.3U	**55.6**
Gasoline-range	2,500	9,700	>Max	5,900	94	31	31	**509 F-03**	10.9U	6.85U	9.86U	7.94U	7.63U

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Petroleum Hydrocarbons (TPHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples						
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TP-4S
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	E-SE Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs	0.0-1.3 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21	03/11/21
TPHs (mg/kg) **DEQ Method NWTPH-Dx with Silica Gel Cleanup & NWTPH-Gx**														
Diesel-range	2,200	4,600	>Max	>Max	>Max	9,500	1,100	27.1U	25.0U	27.6U	25.0U	**505 F-15**	25.0U	25.0U
Oil-range	2,200	4,600	>Max	>Max	>Max	9500	1,100	54.3U	**144**	55.2U	**143**	**1,240 F-16**	50.0U	50.0U
Gasoline-range	2,500	9,700	>Max	5,900	94	31	31	7.18U	**9.97**	8.00U	8.28U	**33.4 F-13**	5.31U	5.80U

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Petroleum Hydrocarbons (TPHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					Test Pit	
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D	TP-10S	TP-10D
								E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area	W Boundary	W Boundary
								1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs	0.0-3.3 ft bgs	3.3-6.3 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
TPHs (mg/kg) **DEQ Method NWTPH-Dx with Silica Gel Cleanup & NWTPH-Gx**														
Diesel-range	2,200	4,600	>Max	>Max	>Max	9,500	1,100	25.6U	25.0U	**234 F-15**	25.0U	25.0U	25.0U	106U
Oil-range	2,200	4,600	>Max	>Max	>Max	9500	1,100	51.1U	50.0U	**532 F-16**	50.0U	50.0U	**145**	**403**
Gasoline-range	2,500	9,700	>Max	5,900	94	31	31	6.14U	5.11U	**235 F-13**	5.58U	5.38U	8.49U	49.6U

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Petroleum Hydrocarbons (TPHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Samples	
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-11S	TP-11D
								SW Area	SW Area
								0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21
TPHs (mg/kg) **DEQ Method NWTPH-Dx with Silica Gel Cleanup & NWTPH-Gx**									
Diesel-range	2,200	4,600	>Max	>Max	>Max	9,500	1,100	25.0U	28.7U
Oil-range	2,200	4,600	>Max	>Max	>Max	9500	1,100	50.0U	57.3U
Gasoline-range	2,500	9,700	>Max	5,900	94	31	31	7.01U	10.1U

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Petroleum Hydrocarbons (TPHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

Analytical data highlighted in yellow indicates the value exceeded a generic RBC.

Analytical data highlighted in blue indicates the value exceeded the Clean Fill Value.

Analytical data highlighted in both yellow and blue indicates the value exceeded one or more generic RBCs and the Clean Fill Value.

Data Qualifiers:

F-03 - The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.

F-13 - The chromatographic pattern does not resemble the fuel standard used for quantitation.

F-15 - Results for diesel are estimated due to overlap from the reported oil result.

F-16 - Results for oil are estimated due to overlap from the reported diesel result.

U - The analyte was analyzed for, but was not detected above the analytical laboratory's limit of quantitation.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

RBC - risk-based concentration

UST - underground storage tank

Table 2. Soil Samples Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
PAHs (mg/kg) **USEPA Method 8270D SIM**													
Acenaphthene	9,400	21,000	590,000	>Max	>Max	>Csat	0.25	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Acenaphthylene	NE	NE	NE	NE	NE	NE	120	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Anthracene	47,000	110,000	>Max	>Max	>Max	>Csat	6.8	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Benz(a)anthracene	2.5	170	4,800	>Csat	>Csat	6.0	0.73	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Benzo(a)pyrene	0.25	17	490	NV	NV	>Csat	0.11	0.0696U, R-04	0.0306U, R-04	0.0220U, R-04	0.00530U	0.00564U	0.0488U, R-04
Benzo(b)fluoranthene	2.5	170	4,900	NV	NV	>Csat	1.1	0.0696U, R-04	0.0306U, R-04	0.0220U, R-04	0.00530U	0.00564U	0.0488U, R-04
Benzo(k)fluoranthene	11	1,700	49,000	NV	NV	>Csat	11	0.0696U, R-04	0.0306U, R-04	0.0220U, R-04	0.00530U	0.00564U	0.0488U, R-04
Benzo(g,h,i)perylene	NE	NE	NE	NE	NE	NE	25	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Chrysene	250	17,000	490,000	NV	NV	>Csat	3.1	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Dibenz(a,h)anthracene	0.25	17	490	NV	NV	>Csat	0.11	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Fluoranthene	4,800	10,000	280,000	NV	NV	>Csat	10	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Fluorene	6,300	14,000	390,000	>Max	>Max	>Csat	3.7	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Indeno(1,2,3-cd)pyrene	2.5	170	4,900	NV	NV	>Csat	1.1	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
1-Methylnaphthalene	NE	NE	NE	NE	NE	NE	0.36	0.0927U, R-04	0.0408U, R-04	0.0293U, R-04	0.00706U	0.00751U	0.0650U, R-04
2-Methylnaphthalene	NE	NE	NE	NE	NE	NE	11	0.0927U, R-04	0.0408U, R-04	0.0293U, R-04	0.00706U	0.00751U	0.0650U, R-04
Naphthalene	25	580	16,000	15	15	0.37	0.077	0.0927U, R-04	0.0408U, R-04	0.0293U, R-04	0.00706U	0.00751U	0.0650U, R-04
Phenanthrene	NE	NE	NE	NE	NE	NE	5.5	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Pyrene	1,800	7,500	210,000	>Csat	>Csat	>Csat	10	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04
Carbazole	NE	NE	NE	NE	NE	NE	79	0.0696U, R-04	0.0306U, R-04	0.0220U, R-04	0.00530U	0.00564U	0.0488U, R-04
Dibenzofuran	NE	NE	NE	NE	NE	NE	0.002	0.0464U, R-04	0.0204U, R-04	0.0147U, R-04	0.00354U	0.00376U	0.0326U, R-04

See notes on next page.

Table 2. Soil Samples Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	.75-3.75 ft bg	2.2-5.2 ft bgs	1.25-4.25 ft bgs	75-3.75 ft bg
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
PAHs (mg/kg) **USEPA Method 8270D SIM**													
Acenaphthene	9,400	21,000	590,000	>Max	>Max	>Csat	0.25	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Acenaphthylene	NE	NE	NE	NE	NE	NE	120	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Anthracene	47,000	110,000	>Max	>Max	>Max	>Csat	6.8	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Benz(a)anthracene	2.5	170	4,800	>Csat	>Csat	6.0	0.73	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Benzo(a)pyrene	0.25	17	490	NV	NV	>Csat	0.11	0.0552U, R-04	0.0514U, R-04	0.00569U	0.0515U, R-04	0.140U, R-04	0.00466U
Benzo(b)fluoranthene	2.5	170	4,900	NV	NV	>Csat	1.1	0.0552U, R-04	0.0514U, R-04	0.00569U	0.0515U, R-04	0.140U, R-04	0.00466U
Benzo(k)fluoranthene	11	1,700	49,000	NV	NV	>Csat	11	0.0552U, R-04	0.0514U, R-04	0.00569U	0.0515U, R-04	0.140U, R-04	0.00466U
Benzo(g,h,i)perylene	NE	NE	NE	NE	NE	NE	25	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Chrysene	250	17,000	490,000	NV	NV	>Csat	3.1	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Dibenz(a,h)anthracene	0.25	17	490	NV	NV	>Csat	0.11	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Fluoranthene	4,800	10,000	280,000	NV	NV	>Csat	10	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Fluorene	6,300	14,000	390,000	>Max	>Max	>Csat	3.7	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Indeno(1,2,3-cd)pyrene	2.5	170	4,900	NV	NV	>Csat	1.1	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
1-Methylnaphthalene	NE	NE	NE	NE	NE	NE	0.36	0.0735U, R-04	0.0685U, R-04	0.00758U	0.0686U, R-04	0.186U, R-04	0.00621U
2-Methylnaphthalene	NE	NE	NE	NE	NE	NE	11	0.0735U, R-04	0.0685U, R-04	0.00758U	0.0686U, R-04	0.186U, R-04	0.00621U
Naphthalene	25	580	16,000	15	15	0.37	0.077	0.0735U, R-04	0.0685U, R-04	0.00758U	0.0686U, R-04	0.186U, R-04	0.00621U
Phenanthrene	NE	NE	NE	NE	NE	NE	5.5	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Pyrene	1,800	7,500	210,000	>Csat	>Csat	>Csat	10	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U
Carbazole	NE	NE	NE	NE	NE	NE	79	0.0552U, R-04	0.0514U, R-04	0.00569U	0.0515U, R-04	0.140U, R-04	0.00466U
Dibenzofuran	NE	NE	NE	NE	NE	NE	0.002	0.0368U, R-04	0.0343U, R-04	0.00380U	0.0344U, R-04	0.0932U, R-04	0.00311U

See notes on next page.

Table 2. Soil Samples Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D
								E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area
								0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
PAHs (mg/kg) **USEPA Method 8270D SIM**													
Acenaphthene	9,400	21,000	590,000	>Max	>Max	>Csat	0.25	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Acenaphthylene	NE	NE	NE	NE	NE	NE	120	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Anthracene	47,000	110,000	>Max	>Max	>Max	>Csat	6.8	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Benz(a)anthracene	2.5	170	4,800	>Csat	>Csat	6.0	0.73	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Benzo(a)pyrene	0.25	17	490	NV	NV	>Csat	0.11	0.00431U	0.00554U	0.00455U	0.234U	0.0186U, R-04	0.0181U, R-04
Benzo(b)fluoranthene	2.5	170	4,900	NV	NV	>Csat	1.1	0.00431U	0.00554U	0.00455U	0.234U	0.0186U, R-04	0.0181U, R-04
Benzo(k)fluoranthene	11	1,700	49,000	NV	NV	>Csat	11	0.00431U	0.00554U	0.00455U	0.234U	0.0186U, R-04	0.0181U, R-04
Benzo(g,h,i)perylene	NE	NE	NE	NE	NE	NE	25	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Chrysene	250	17,000	490,000	NV	NV	>Csat	3.1	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Dibenz(a,h)anthracene	0.25	17	490	NV	NV	>Csat	0.11	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Fluoranthene	4,800	10,000	280,000	NV	NV	>Csat	10	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Fluorene	6,300	14,000	390,000	>Max	>Max	>Csat	3.7	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Indeno(1,2,3-cd)pyrene	2.5	170	4,900	NV	NV	>Csat	1.1	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
1-Methylnaphthalene	NE	NE	NE	NE	NE	NE	0.36	0.00574U	0.00738U	0.00606U	0.312U	0.0248U, R-04	0.0242U, R-04
2-Methylnaphthalene	NE	NE	NE	NE	NE	NE	11	0.00574U	**0.0138**	0.00606U	**0.412**	0.0248U, R-04	0.0242U, R-04
Naphthalene	25	580	16,000	15	15	0.37	0.077	0.00574U	0.00738U	0.00606U	0.312U	0.0248U, R-04	0.0242U, R-04
Phenanthrene	NE	NE	NE	NE	NE	NE	5.5	0.00288U	0.00370U	0.00303U	**0.261**	0.0124U, R-04	0.0121U, R-04
Pyrene	1,800	7,500	210,000	>Csat	>Csat	>Csat	10	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04
Carbazole	NE	NE	NE	NE	NE	NE	79	0.00431U	0.00554U	0.00455U	0.234U	0.0186U, R-04	0.0181U, R-04
Dibenzofuran	NE	NE	NE	NE	NE	NE	0.002	0.00288U	0.00370U	0.00303U	0.156U	0.0124U, R-04	0.0121U, R-04

See notes on next page.

Table 2. Soil Samples Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples			
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-10S	TP-10D	TP-11S	TP-11D
								W Boundary	W Boundary	SW Area	SW Area
								0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21
PAHs (mg/kg) **USEPA Method 8270D SIM**											
Acenaphthene	9,400	21,000	590,000	>Max	>Max	>Csat	0.25	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Acenaphthylene	NE	NE	NE	NE	NE	NE	120	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Anthracene	47,000	110,000	>Max	>Max	>Max	>Csat	6.8	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Benz(a)anthracene	2.5	170	4,800	>Csat	>Csat	6.0	0.73	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Benzo(a)pyrene	0.25	17	490	NV	NV	>Csat	0.11	0.0465U, R-04	0.168U, R-04	0.00457U	0.0237U, R-04
Benzo(b)fluoranthene	2.5	170	4,900	NV	NV	>Csat	1.1	0.0465U, R-04	0.168U, R-04	0.00457U	0.0237U, R-04
Benzo(k)fluoranthene	11	1,700	49,000	NV	NV	>Csat	11	0.0465U, R-04	0.168U, R-04	0.00457U	0.0237U, R-04
Benzo(g,h,i)perylene	NE	NE	NE	NE	NE	NE	25	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Chrysene	250	17,000	490,000	NV	NV	>Csat	3.1	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Dibenz(a,h)anthracene	0.25	17	490	NV	NV	>Csat	0.11	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Fluoranthene	4,800	10,000	280,000	NV	NV	>Csat	10	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Fluorene	6,300	14,000	390,000	>Max	>Max	>Csat	3.7	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Indeno(1,2,3-cd)pyrene	2.5	170	4,900	NV	NV	>Csat	1.1	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
1-Methylnaphthalene	NE	NE	NE	NE	NE	NE	0.36	0.0620U, R-04	0.224U, R-04	0.00609U	0.0315U, R-04
2-Methylnaphthalene	NE	NE	NE	NE	NE	NE	11	0.0620U, R-04	0.224U, R-04	0.00609U	0.0315U, R-04
Naphthalene	25	580	16,000	15	15	0.37	0.077	0.0620U, R-04	0.224U, R-04	0.00609U	0.0315U, R-04
Phenanthrene	NE	NE	NE	NE	NE	NE	5.5	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Pyrene	1,800	7,500	210,000	>Csat	>Csat	>Csat	10	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04
Carbazole	NE	NE	NE	NE	NE	NE	79	0.0465U, R-04	0.168U, R-04	0.00457U	0.0237U, R-04
Dibenzofuran	NE	NE	NE	NE	NE	NE	0.002	0.0310U, R-04	0.112U, R-04	0.00305U	0.0158U, R-04

See notes on next page.

Table 2. Soil Samples Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

Data Qualifiers:

R-04 - Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenari

mg/kg - milligrams per kilogram

NE - No RBC levels are established for this chemical.

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
VOCs (mg/kg) **USEPA Method 8260D**													
Acetone	NE	NE	NE	NE	NE	NE	1.2	4.66U	2.18U	1.37U	1.97U	1.59U	1.53U
Acrylonitrile	2.5	40	1,100	3.1	0.19	0.0016	0.00036	**0.466U**	**0.218U**	**0.137U**	**0.197U**	**0.159U**	**0.153U**
Benzene	24	380	11,000	27	0.38	0.10	0.023	0.0466U	0.0218U	0.0137U	0.0197U	0.0159U	0.0153U
Bromobenzene	NE	NE	NE	NE	NE	NE	2.5	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
Bromochloromethane	NE	NE	NE	NE	NE	NE	1.3	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Bromodichloromethane	12	230	6,300	5.7	0.096	0.0091	0.002	**0.233U**	**0.109U**	**0.0685U**	**0.0986U**	**0.0794U**	**0.0763U**
Bromoform	57	2,700	74,000	81	8.2	0.046	0.046	**0.466U**	**0.218U**	**0.137U**	**0.197U**	**0.159U**	**0.153U**
Bromomethane	92	370	10,000	170	1.3	0.30	0.083	**2.33U**	**1.09U**	**0.685U**	**0.986U**	**0.794U**	**0.763U**
2-Butanone (MEK)	NE	NE	NE	NE	NE	NE	72	2.33U	1.09U	0.685U	0.986U	0.794U	0.763U
n-Butylbenzene	NE	NE	NE	NE	NE	NE	190	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
sec-Butylbenzene	NE	NE	NE	NE	NE	NE	350	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
tert-Butylbenzene	NE	NE	NE	NE	NE	NE	96	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Carbon disulfide	NE	NE	NE	NE	NE	NE	0.81	**2.33U**	**1.09U**	**0.685U**	**0.986U**	**0.794U**	**0.763U**
Carbon tetrachloride	21	320	8,900	35	0.28	0.055	0.013	**0.233U**	**0.109U**	**0.0685U**	**0.0986U**	**0.0794U**	**0.0763U**
Chlorobenzene	1,100	4,700	130,000	>Csat	77	22	2.4	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
Chloroethane (ethyl chloride)	320,000	>Max	>Max	>Csat	>Csat	1,100	310	2.33U	1.09U	0.685U	0.986U	0.794U	0.763U
Chloroform	22	410	11,000	9.2	0.074	0.016	0.0034	**0.233U**	**0.109U**	**0.0685U**	**0.0986U**	**0.0794U**	**0.0763U**
Chloromethane	2,900	25,000	700,000	>Csat	24	7.9	2.2	1.17U	0.546U	0.342U	0.493U	0.397U	0.382U
2-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
4-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Dibromochloromethane	12	210	5,800	7.8	0.53	0.0110	0.0024	**0.466U**	**0.218U**	**0.137U**	**0.197U**	**0.159U**	**0.153U**
1,2-Dibromo-3-chloropropane	NE	NE	NE	NE	NE	NE	0.0000084	1.17U	0.546U	0.342U	0.493U	0.397U	0.382U
1,2-dibromoethane (EDB)	0.53	9.0	250	0.35	0.028	0.00056	0.00012	**0.233U**	**0.109U**	**0.0685U**	**0.0986U**	**0.0794U**	**0.0763U**
Dibromomethane	NE	NE	NE	NE	NE	NE	0.13	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
1,2-Dichlorobenzene	4,400	20,000	560,000	>Csat	>Csat	140	0.92	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	0.74	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
1,4-Dichlorobenzene	62	1,300	36,000	19	2.3	0.27	0.057	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
Dichlorodifluoromethane	NE	NE	NE	NE	NE	NE	18	0.466U	0.218U	0.137U	0.197U	0.159U	0.153U
1,1-Dichloroethane	190	3,200	89,000	130	1.1	0.20	0.04	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
1,2-dichloroethane (EDC)	12	200	5,600	8.1	0.18	0.013	0.0028	**0.117U**	**0.0546U**	**0.0342U**	**0.0493U**	**0.0397U**	**0.0382U**
1,1-Dichloroethene	3,500	13,000	370,000	>Csat	54	25	6.7	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
cis-1,2-Dichloroethene	310	710	20,000	>Max	>Max	2.4	0.63	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
trans-1,2-Dichloroethene	3,100	7,100	200,000	>Max	>Max	27	7	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
1,2-Dichloropropane	NE	NE	NE	NE	NE	NE	0.017	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
1,3-Dichloropropane	NE	NE	NE	NE	NE	NE	7.8	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
VOCs (mg/kg) USEPA Method 8260d													
2,2-Dichloropropane	NE	NE	NE	NE	NE	NE	NE	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
1,1-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
cis-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
trans-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Ethylbenzene	110	1,700	49,000	85	3.0	0.94	0.22	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
Hexachlorobutadiene	NE	NE	NE	NE	NE	NE	0.016	0.466U	0.218U	0.137U	0.197U	0.159U	0.153U
2-Hexanone	NE	NE	NE	NE	NE	NE	0.36	2.33U	1.09U	0.685U	0.986U	0.794U	0.763U
iso-Propylbenzene (cumene)	7,000	27,000	750,000	>Csat	>Csat	>Csat	96	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
4-Isopropyltoluene	NE	NE	NE	NE	NE	NE	NE	**4.14**	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Methylene chloride	NE	NE	NE	NE	NE	NE	9.7	2.33U	1.09U	0.685U	0.986U	0.794U	0.763U
4-Methyl-2-pentanone (MiBK)	NE	NE	NE	NE	NE	NE	0.11	2.33U	1.09U	0.685U	0.986U	0.794U	0.763U
methyl t-butyl ether (MTBE)	730	12,000	320,000	810	20	0.50	NE	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Naphthalene	25	580	16,000	15	15	0.37	0.077	**0.466U**	0.218U	0.137U	0.197U	0.159U	0.153U
n-Propylbenzene	NE	NE	NE	NE	NE	NE	NE	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
Styrene	16,000	56,000	>Max	>Csat	>Csat	640	1.2	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.013	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.0018	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Tetrachloroethene (PCE)	540	10,000	280,000	>Csat	6.6	1.9	0.18	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
Toluene	12,000	28,000	770,000	>Csat	>Csat	340	23	**1.41**	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
1,2,3-Trichlorobenzene	NE	NE	NE	NE	NE	NE	1.3	1.17U	0.546U	0.342U	0.493U	0.397U	0.382U
1,2,4-Trichlorobenzene	NE	NE	NE	NE	NE	NE	0.2	1.17U	0.546U	0.342U	0.493U	0.397U	0.382U
1,1,1-Trichloroethane	110,000	470,000	>Max	>Csat	>Csat	710	190	0.117U	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
1,1,2-Trichloroethane	6.3	320	8,900	6.7	0.38	0.029	0.006	**0.117U**	**0.0546U**	**0.0342U**	**0.0493U**	**0.0397U**	**0.0382U**
Trichloroethene (TCE)	17.0	470	13,000	33	0.26	0.053	0.013	**0.117U**	**0.0546U**	0.0342U	0.0493U	0.0397U	0.0382U
Trichlorofluoromethane	15,000	69,000	>Max	>Csat	190	230	52	0.466U	0.218U	0.137U	0.197U	0.159U	0.153U
1,2,3-Trichloropropane	NE	NE	NE	NE	NE	NE	0.000019	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
1,2,4-Trimethylbenzene	860	2,900	81,000	>Csat	140	43	10	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
1,3,5-Trimethylbenzene	860	2,900	81,000	>Csat	98	45	11	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
Vinyl chloride	0.80	34	950	6.5	0.053	0.0014	0.00057	**0.117U**	**0.0546U**	**0.0342U**	**0.0493U**	**0.0397U**	**0.0382U**
m,p-Xylene	NE	NE	NE	NE	NE	NE	11	0.233U	0.109U	0.0685U	0.0986U	0.0794U	0.0763U
o-Xylene	NE	NE	NE	NE	NE	NE	1	**0.303**	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U
Xylenes	2,900	20,000	560,000	>Csat	160	87	1.4	**0.303**	0.0546U	0.0342U	0.0493U	0.0397U	0.0382U

See notes on next page.

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bg
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
VOCs (mg/kg) **USEPA Method 8260D**													
Acetone	NE	NE	NE	NE	NE	NE	1.2	1.44U	1.51U	1.60U	1.66U	3.75U	1.06U
Acrylonitrile	2.5	40	1,100	3.1	0.19	0.0016	0.00036	**0.144U**	**0.151U**	**0.160U**	**0.166U**	**0.375U**	**0.106U**
Benzene	24	380	11,000	27	0.38	0.10	0.023	0.0144U	0.0151U	0.0160U	0.0166U	0.0375U	0.0106U
Bromobenzene	NE	NE	NE	NE	NE	NE	2.5	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
Bromochloromethane	NE	NE	NE	NE	NE	NE	1.3	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
Bromodichloromethane	12	230	6,300	5.7	0.096	0.0091	0.002	**0.0718U**	**0.0755U**	**0.0800U**	**0.0828U**	**0.187U**	**0.0531U**
Bromoform	57	2,700	74,000	81	8.2	0.046	0.046	**0.144U**	**0.151U**	**0.160U**	**0.166U**	**0.375U**	**0.106U**
Bromomethane	92	370	10,000	170	1.3	0.30	0.083	**0.718U**	**0.755U**	**0.800U**	**0.828U**	**1.87U**	**0.531U**
2-Butanone (MEK)	NE	NE	NE	NE	NE	NE	72	0.718U	0.755U	0.800U	0.828U	1.87U	0.531U
n-Butylbenzene	NE	NE	NE	NE	NE	NE	190	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
sec-Butylbenzene	NE	NE	NE	NE	NE	NE	350	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
tert-Butylbenzene	NE	NE	NE	NE	NE	NE	96	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
Carbon disulfide	NE	NE	NE	NE	NE	NE	0.81	**0.718U**	**0.755U**	**0.800U**	**0.828U**	**1.87U**	**0.531U**
Carbon tetrachloride	21	320	8,900	35	0.28	0.055	0.013	**0.0718U**	**0.0755U**	**0.0800U**	**0.0828U**	**0.187U**	**0.0531U**
Chlorobenzene	1,100	4,700	130,000	>Csat	77	22	2.4	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
Chloroethane (ethyl chloride)	320,000	>Max	>Max	>Csat	>Csat	1,100	310	0.718U	0.755U	0.800U	0.828U	1.87U	0.531U
Chloroform	22	410	11,000	9.2	0.074	0.016	0.0034	**0.0718U**	**0.0755U**	**0.0800U**	**0.0828U**	**0.187U**	**0.0531U**
Chloromethane	2,900	25,000	700,000	>Csat	24	7.9	2.2	0.359U	0.378U	0.400U	0.414U	0.937U	0.266U
2-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
4-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
Dibromochloromethane	12	210	5,800	7.8	0.53	0.0110	0.0024	**0.144U**	**0.151U**	**0.160U**	**0.166U**	**0.375U**	**0.106U**
1,2-Dibromo-3-chloropropane	NE	NE	NE	NE	NE	NE	0.0000084	0.359U	0.378U	0.400U	0.414U	0.937U	0.266U
1,2-dibromoethane (EDB)	0.53	9.0	250	0.35	0.028	0.00056	0.00012	**0.0718U**	**0.0755U**	**0.0800U**	**0.0828U**	**0.187U**	**0.0531U**
Dibromomethane	NE	NE	NE	NE	NE	NE	0.13	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
1,2-Dichlorobenzene	4,400	20,000	560,000	>Csat	>Csat	140	0.92	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	0.74	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
1,4-Dichlorobenzene	62	1,300	36,000	19	2.3	0.27	0.057	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
Dichlorodifluoromethane	NE	NE	NE	NE	NE	NE	18	0.144U	0.151U	0.160U	0.166U	0.375U	0.106U
1,1-Dichloroethane	190	3,200	89,000	130	1.1	0.20	0.04	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
1,2-dichloroethane (EDC)	12	200	5,600	8.1	0.18	0.013	0.0028	**0.0359U**	**0.0378U**	**0.0400U**	**0.0414U**	**0.0937U**	**0.0266U**
1,1-Dichloroethene	3,500	13,000	370,000	>Csat	54	25	6.7	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
cis-1,2-Dichloroethene	310	710	20,000	>Max	>Max	2.4	0.63	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
trans-1,2-Dichloroethene	3,100	7,100	200,000	>Max	>Max	27	7	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
1,2-Dichloropropane	NE	NE	NE	NE	NE	NE	0.017	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
1,3-Dichloropropane	NE	NE	NE	NE	NE	NE	7.8	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
VOCs (mg/kg) USEPA Method 8260d													
2,2-Dichloropropane	NE	NE	NE	NE	NE	NE	NE	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
1,1-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
cis-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
trans-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
Ethylbenzene	110	1,700	49,000	85	3.0	0.94	0.22	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
Hexachlorobutadiene	NE	NE	NE	NE	NE	NE	0.016	0.144U	0.151U	0.160U	0.166U	0.375U	0.106U
2-Hexanone	NE	NE	NE	NE	NE	NE	0.36	0.718U	0.755U	0.800U	0.828U	1.87U	0.531U
iso-Propylbenzene (cumene)	7,000	27,000	750,000	>Csat	>Csat	>Csat	96	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
4-Isopropyltoluene	NE	NE	NE	NE	NE	NE	NE	0.0718U	**0.322**	0.0800U	0.0828U	0.187U	0.0531U
Methylene chloride	NE	NE	NE	NE	NE	NE	9.7	0.718U	0.755U	0.800U	0.828U	1.87U	0.531U
4-Methyl-2-pentanone (MiBK)	NE	NE	NE	NE	NE	NE	0.11	0.718U	0.755U	0.800U	0.828U	1.87U	0.531U
methyl t-butyl ether (MTBE)	730	12,000	320,000	810	20	0.50	NE	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
Naphthalene	25	580	16,000	15	15	0.37	0.077	0.144U	0.151U	0.160U	0.166U	**0.375U**	0.106U
n-Propylbenzene	NE	NE	NE	NE	NE	NE	NE	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
Styrene	16,000	56,000	>Max	>Csat	>Csat	640	1.2	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.013	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.0018	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
Tetrachloroethene (PCE)	540	10,000	280,000	>Csat	6.6	1.9	0.18	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
Toluene	12,000	28,000	770,000	>Csat	>Csat	340	23	0.0718U	**0.162**	0.0800U	0.0828U	0.187U	0.0531U
1,2,3-Trichlorobenzene	NE	NE	NE	NE	NE	NE	1.3	0.359U	0.378U	0.400U	0.414U	0.937U	0.266U
1,2,4-Trichlorobenzene	NE	NE	NE	NE	NE	NE	0.2	0.359U	0.378U	0.400U	0.414U	0.937U	0.266U
1,1,1-Trichloroethane	110,000	470,000	>Max	>Csat	>Csat	710	190	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
1,1,2-Trichloroethane	6.3	320	8,900	6.7	0.38	0.029	0.006	**0.0359U**	**0.0378U**	**0.0400U**	**0.0414U**	**0.0937U**	**0.0266U**
Trichloroethene (TCE)	17.0	470	13,000	33	0.26	0.053	0.013	0.0359U	0.0378U	0.0400U	0.0414U	**0.0937U**	0.0266U
Trichlorofluoromethane	15,000	69,000	>Max	>Csat	190	230	52	0.144U	0.151U	0.160U	0.166U	0.375U	0.106U
1,2,3-Trichloropropane	NE	NE	NE	NE	NE	NE	0.000019	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
1,2,4-Trimethylbenzene	860	2,900	81,000	>Csat	140	43	10	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
1,3,5-Trimethylbenzene	860	2,900	81,000	>Csat	98	45	11	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
Vinyl chloride	0.80	34	950	6.5	0.053	0.0014	0.00057	**0.0359U**	**0.0378U**	**0.0400U**	**0.0414U**	**0.0937U**	**0.0266U**
m,p-Xylene	NE	NE	NE	NE	NE	NE	11	0.0718U	0.0755U	0.0800U	0.0828U	0.187U	0.0531U
o-Xylene	NE	NE	NE	NE	NE	NE	1	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U
Xylenes	2,900	20,000	560,000	>Csat	160	87	1.4	0.0359U	0.0378U	0.0400U	0.0414U	0.0937U	0.0266U

See notes on next page.

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D
								E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area
								0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
VOCs (mg/kg) **USEPA Method 8260D**													
Acetone	NE	NE	NE	NE	NE	NE	1.2	1.16U	1.23U	1.02U	1.45U	1.12U	1.08U
Acrylonitrile	2.5	40	1,100	3.1	0.19	0.0016	0.00036	**0.116U**	**0.123U**	**0.102U**	**0.145U**	**0.112U**	**0.108U**
Benzene	24	380	11,000	27	0.38	0.10	0.023	0.0116U	0.0123U	0.0102U	0.0145U	0.0112U	0.0108U
Bromobenzene	NE	NE	NE	NE	NE	NE	2.5	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
Bromochloromethane	NE	NE	NE	NE	NE	NE	1.3	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
Bromodichloromethane	12	230	6,300	5.7	0.096	0.0091	0.002	**0.0580U**	**0.0614U**	**0.0511U**	**0.0724U**	**0.0558U**	**0.0538U**
Bromoform	57	2,700	74,000	81	8.2	0.046	0.046	**0.116U**	**0.123U**	**0.102U**	**0.145U**	**0.112U**	**0.108U**
Bromomethane	92	370	10,000	170	1.3	0.30	0.083	**0.580U**	**0.614U**	**0.511U**	**0.724U**	**0.558U**	**0.538U**
2-Butanone (MEK)	NE	NE	NE	NE	NE	NE	72	0.580U	0.614U	0.511U	0.724U	0.558U	0.538U
n-Butylbenzene	NE	NE	NE	NE	NE	NE	190	0.0580U	0.0614U	0.0511U	**0.386**	0.0558U	0.0538U
sec-Butylbenzene	NE	NE	NE	NE	NE	NE	350	0.0580U	0.0614U	0.0511U	**0.237**	0.0558U	0.0538U
tert-Butylbenzene	NE	NE	NE	NE	NE	NE	96	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
Carbon disulfide	NE	NE	NE	NE	NE	NE	0.81	**0.580U**	**0.614U**	**0.511U**	**0.724U**	**0.558U**	**0.538U**
Carbon tetrachloride	21	320	8,900	35	0.28	0.055	0.013	**0.0580U**	**0.0614U**	**0.0511U**	**0.0724U**	**0.0558U**	**0.0538U**
Chlorobenzene	1,100	4,700	130,000	>Csat	77	22	2.4	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
Chloroethane (ethyl chloride)	320,000	>Max	>Max	>Csat	>Csat	1,100	310	0.580U	0.614U	0.511U	0.724U	0.558U	0.538U
Chloroform	22	410	11,000	9.2	0.074	0.016	0.0034	**0.0580U**	**0.0614U**	**0.0511U**	**0.0724U**	**0.0558U**	**0.0538U**
Chloromethane	2,900	25,000	700,000	>Csat	24	7.9	2.2	0.290U	0.307U	0.256U	0.362U	0.279U	0.269U
2-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
4-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
Dibromochloromethane	12	210	5,800	7.8	0.53	0.0110	0.0024	**0.116U**	**0.123U**	**0.102U**	**0.145U**	**0.112U**	**0.108U**
1,2-Dibromo-3-chloropropane	NE	NE	NE	NE	NE	NE	0.0000084	0.290U	0.307U	0.256U	0.362U	0.279U	0.269U
1,2-dibromoethane (EDB)	0.53	9.0	250	0.35	0.028	0.00056	0.00012	**0.0580U**	**0.0614U**	**0.0511U**	**0.0724U**	**0.0558U**	**0.0538U**
Dibromomethane	NE	NE	NE	NE	NE	NE	0.13	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
1,2-Dichlorobenzene	4,400	20,000	560,000	>Csat	>Csat	140	0.92	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	0.74	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
1,4-Dichlorobenzene	62	1,300	36,000	19	2.3	0.27	0.057	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
Dichlorodifluoromethane	NE	NE	NE	NE	NE	NE	18	0.116U	0.123U	0.102U	0.145U	0.112U	0.108U
1,1-Dichloroethane	190	3,200	89,000	130	1.1	0.20	0.04	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
1,2-dichloroethane (EDC)	12	200	5,600	8.1	0.18	0.013	0.0028	**0.0290U**	**0.0307U**	**0.0256U**	**0.0362U**	**0.0279U**	**0.0269U**
1,1-Dichloroethene	3,500	13,000	370,000	>Csat	54	25	6.7	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
cis-1,2-Dichloroethene	310	710	20,000	>Max	>Max	2.4	0.63	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
trans-1,2-Dichloroethene	3,100	7,100	200,000	>Max	>Max	27	7	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
1,2-Dichloropropane	NE	NE	NE	NE	NE	NE	0.017	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
1,3-Dichloropropane	NE	NE	NE	NE	NE	NE	7.8	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D
								E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area
								0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
VOCs (mg/kg) USEPA Method 8260d													
2,2-Dichloropropane	NE	NE	NE	NE	NE	NE	NE	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
1,1-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
cis-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
trans-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
Ethylbenzene	110	1,700	49,000	85	3.0	0.94	0.22	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
Hexachlorobutadiene	NE	NE	NE	NE	NE	NE	0.016	0.116U	0.123U	0.102U	0.145U	0.112U	0.108U
2-Hexanone	NE	NE	NE	NE	NE	NE	0.36	0.580U	0.614U	0.511U	0.724U	0.558U	0.538U
iso-Propylbenzene (cumene)	7,000	27,000	750,000	>Csat	>Csat	>Csat	96	0.0580U	0.0614U	0.0511U	**0.0789**	0.0558U	0.0538U
4-Isopropyltoluene	NE	NE	NE	NE	NE	NE	NE	0.0580U	0.0614U	0.0511U	**0.205 M-02**	0.0558U	0.0538U
Methylene chloride	NE	NE	NE	NE	NE	NE	9.7	0.580U	0.614U	0.511U	0.724U	0.558U	0.538U
4-Methyl-2-pentanone (MiBK)	NE	NE	NE	NE	NE	NE	0.11	0.580U	0.614U	0.511U	0.724U	0.558U	0.538U
methyl t-butyl ether (MTBE)	730	12,000	320,000	810	20	0.50	NE	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
Naphthalene	25	580	16,000	15	15	0.37	0.077	0.116U	0.123U	0.102U	**0.153**	0.112U	0.108U
n-Propylbenzene	NE	NE	NE	NE	NE	NE	NE	0.0290U	0.0307U	0.0256U	**0.310**	0.0279U	0.0269U
Styrene	16,000	56,000	>Max	>Csat	>Csat	640	1.2	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.013	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.0018	0.0580U	0.0614U	0.0511U	0.651U, R-02	0.0558U	0.0538U
Tetrachloroethene (PCE)	540	10,000	280,000	>Csat	6.6	1.9	0.18	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
Toluene	12,000	28,000	770,000	>Csat	>Csat	340	23	0.0580U	0.0614U	0.0511U	0.0724U	0.0558U	0.0538U
1,2,3-Trichlorobenzene	NE	NE	NE	NE	NE	NE	1.3	0.290U	0.307U	0.256U	0.362U	0.279U	0.269U
1,2,4-Trichlorobenzene	NE	NE	NE	NE	NE	NE	0.2	0.290U	0.307U	0.256U	0.362U	0.279U	0.269U
1,1,1-Trichloroethane	110,000	470,000	>Max	>Csat	>Csat	710	190	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
1,1,2-Trichloroethane	6.3	320	8,900	6.7	0.38	0.029	0.006	**0.0290U**	**0.0307U**	**0.0256U**	**0.0362U**	**0.0279U**	**0.0269U**
Trichloroethene (TCE)	17.0	470	13,000	33	0.26	0.053	0.013	0.0290U	0.0307U	0.0256U	0.0362U	0.0279U	0.0269U
Trichlorofluoromethane	15,000	69,000	>Max	>Csat	190	230	52	0.116U	0.123U	0.102U	0.145U	0.112U	0.108U
1,2,3-Trichloropropane	NE	NE	NE	NE	NE	NE	0.000019	0.0580U	0.0614U	0.0511U	0.181U, R-02	0.0558U	0.0538U
1,2,4-Trimethylbenzene	860	2,900	81,000	>Csat	140	43	10	0.0580U	0.0614U	0.0511U	**2.75**	0.0558U	0.0538U
1,3,5-Trimethylbenzene	860	2,900	81,000	>Csat	98	45	11	0.0580U	0.0614U	0.0511U	**0.881**	0.0558U	0.0538U
Vinyl chloride	0.80	34	950	6.5	0.053	0.0014	0.00057	**0.0290U**	**0.0307U**	**0.0256U**	**0.0362U**	**0.0279U**	**0.0269U**
m,p-Xylene	NE	NE	NE	NE	NE	NE	11	0.0580U	0.0614U	0.0511U	**0.108**	0.0558U	0.0538U
o-Xylene	NE	NE	NE	NE	NE	NE	1	0.0290U	0.0307U	0.0256U	**0.114**	0.0279U	0.0269U
Xylenes	2,900	20,000	560,000	>Csat	160	87	1.4	0.0290U	0.0307U	0.0256U	**0.222**	0.0279U	0.0269U

See notes on next page.

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples			
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-10S	TP-10D	TP-11S	TP-11D
								W Boundary	W Boundary	SW Area	SW Area
								0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21
VOCs (mg/kg) **USEPA Method 8260D**											
Acetone	NE	NE	NE	NE	NE	NE	1.2	1.70U	9.91U	1.40U	2.01U
Acrylonitrile	2.5	40	1,100	3.1	0.19	0.0016	0.00036	**0.170U**	**0.991U**	**0.140U**	**0.201U**
Benzene	24	380	11,000	27	0.38	0.10	0.023	0.0170U	0.0991U	0.0140U	0.0201U
Bromobenzene	NE	NE	NE	NE	NE	NE	2.5	0.0425U	0.248U	0.0351U	0.0503U
Bromochloromethane	NE	NE	NE	NE	NE	NE	1.3	0.0849U	0.496U	0.0701U	0.101U
Bromodichloromethane	12	230	6,300	5.7	0.096	0.0091	0.002	**0.0849U**	**0.496U**	**0.0701U**	**0.101U**
Bromoform	57	2,700	74,000	81	8.2	0.046	0.046	**0.170U**	**0.991U**	**0.140U**	**0.201U**
Bromomethane	92	370	10,000	170	1.3	0.30	0.083	**0.849U**	**4.96U**	**0.701U**	**1.01U**
2-Butanone (MEK)	NE	NE	NE	NE	NE	NE	72	0.849U	4.96U	0.701U	1.01U
n-Butylbenzene	NE	NE	NE	NE	NE	NE	190	0.0849U	0.496U	0.0701U	0.101U
sec-Butylbenzene	NE	NE	NE	NE	NE	NE	350	0.0849U	0.496U	0.0701U	0.101U
tert-Butylbenzene	NE	NE	NE	NE	NE	NE	96	0.0849U	0.496U	0.0701U	0.101U
Carbon disulfide	NE	NE	NE	NE	NE	NE	0.81	**0.849U**	**4.96U**	**0.701U**	**1.01U**
Carbon tetrachloride	21	320	8,900	35	0.28	0.055	0.013	**0.0849U**	**0.496U**	**0.0701U**	**0.101U**
Chlorobenzene	1,100	4,700	130,000	>Csat	77	22	2.4	0.0425U	0.248U	0.0351U	0.0503U
Chloroethane (ethyl chloride)	320,000	>Max	>Max	>Csat	>Csat	1,100	310	0.849U	4.96U	0.701U	1.01U
Chloroform	22	410	11,000	9.2	0.074	0.016	0.0034	**0.0849U**	**0.496U**	**0.0701U**	**0.101U**
Chloromethane	2,900	25,000	700,000	>Csat	24	7.9	2.2	0.425U	2.48U	0.351U	0.503U
2-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.0849U	0.496U	0.0701U	0.101U
4-Chlorotoluene	NE	NE	NE	NE	NE	NE	14	0.0849U	0.496U	0.0701U	0.101U
Dibromochloromethane	12	210	5,800	7.8	0.53	0.0110	0.0024	**0.170U**	**0.991U**	**0.140U**	**0.201U**
1,2-Dibromo-3-chloropropane	NE	NE	NE	NE	NE	NE	0.0000084	0.425U	2.48U	0.351U	0.503U
1,2-dibromoethane (EDB)	0.53	9.0	250	0.35	0.028	0.00056	0.00012	**0.0849U**	**0.496U**	**0.0701U**	**0.101U**
Dibromomethane	NE	NE	NE	NE	NE	NE	0.13	0.0849U	0.496U	0.0701U	0.101U
1,2-Dichlorobenzene	4,400	20,000	560,000	>Csat	>Csat	140	0.92	0.0425U	0.248U	0.0351U	0.0503U
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	0.74	0.0425U	0.248U	0.0351U	0.0503U
1,4-Dichlorobenzene	62	1,300	36,000	19	2.3	0.27	0.057	0.0425U	0.248U	0.0351U	0.0503U
Dichlorodifluoromethane	NE	NE	NE	NE	NE	NE	18	0.170U	0.991U	0.140U	0.201U
1,1-Dichloroethane	190	3,200	89,000	130	1.1	0.20	0.04	0.0425U	**0.248U**	0.0351U	0.0503U
1,2-dichloroethane (EDC)	12	200	5,600	8.1	0.18	0.013	0.0028	**0.0425U**	**0.248U**	**0.0351U**	**0.0503U**
1,1-Dichloroethene	3,500	13,000	370,000	>Csat	54	25	6.7	0.0425U	0.248U	0.0351U	0.0503U
cis-1,2-Dichloroethene	310	710	20,000	>Max	>Max	2.4	0.63	0.0425U	0.248U	0.0351U	0.0503U
trans-1,2-Dichloroethene	3,100	7,100	200,000	>Max	>Max	27	7	0.0425U	0.248U	0.0351U	0.0503U
1,2-Dichloropropane	NE	NE	NE	NE	NE	NE	0.017	0.0425U	0.248U	0.0351U	0.0503U
1,3-Dichloropropane	NE	NE	NE	NE	NE	NE	7.8	0.0849U	0.496U	0.0701U	0.101U

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples			
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-10S	TP-10D	TP-11S	TP-11D
								W Boundary	W Boundary	SW Area	SW Area
								0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21
VOCs (mg/kg) USEPA Method 8260d											
2,2-Dichloropropane	NE	NE	NE	NE	NE	NE	NE	0.0849U	0.496U	0.0701U	0.101U
1,1-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0849U	0.496U	0.0701U	0.101U
cis-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0849U	0.496U	0.0701U	0.101U
trans-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	0.0849U	0.496U	0.0701U	0.101U
Ethylbenzene	110	1,700	49,000	85	3.0	0.94	0.22	0.0425U	0.248U	0.0351U	0.0503U
Hexachlorobutadiene	NE	NE	NE	NE	NE	NE	0.016	0.170U	0.991U	0.140U	0.201U
2-Hexanone	NE	NE	NE	NE	NE	NE	0.36	0.849U	4.96U	0.701U	1.01U
iso-Propylbenzene (cumene)	7,000	27,000	750,000	>Csat	>Csat	>Csat	96	0.0849U	0.496U	0.0701U	0.101U
4-Isopropyltoluene	NE	NE	NE	NE	NE	NE	NE	0.0849U	0.496U	0.0701U	0.101U
Methylene chloride	NE	NE	NE	NE	NE	NE	9.7	0.849U	4.96U	0.701U	1.01U
4-Methyl-2-pentanone (MiBK)	NE	NE	NE	NE	NE	NE	0.11	0.849U	4.96U	0.701U	1.01U
methyl t-butyl ether (MTBE)	730	12,000	320,000	810	20	0.50	NE	0.0849U	0.496U	0.0701U	0.101U
Naphthalene	25	580	16,000	15	15	0.37	0.077	0.170U	**0.991U**	0.140U	0.201U
n-Propylbenzene	NE	NE	NE	NE	NE	NE	NE	0.0425U	0.248U	0.0351U	0.0503U
Styrene	16,000	56,000	>Max	>Csat	>Csat	640	1.2	0.0849U	0.496U	0.0701U	0.101U
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.013	0.0425U	0.248U	0.0351U	0.0503U
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	0.0018	0.0849U	0.496U	0.0701U	0.101U
Tetrachloroethene (PCE)	540	10,000	280,000	>Csat	6.6	1.9	0.18	0.0425U	0.248U	0.0351U	0.0503U
Toluene	12,000	28,000	770,000	>Csat	>Csat	340	23	0.0849U	0.496U	0.0701U	0.101U
1,2,3-Trichlorobenzene	NE	NE	NE	NE	NE	NE	1.3	0.425U	2.48U	0.351U	0.503U
1,2,4-Trichlorobenzene	NE	NE	NE	NE	NE	NE	0.2	0.425U	2.48U	0.351U	0.503U
1,1,1-Trichloroethane	110,000	470,000	>Max	>Csat	>Csat	710	190	0.0425U	0.248U	0.0351U	0.0503U
1,1,2-Trichloroethane	6.3	320	8,900	6.7	0.38	0.029	0.006	**0.0425U**	**0.248U**	**0.0351U**	**0.0503U**
Trichloroethene (TCE)	17.0	470	13,000	33	0.26	0.053	0.013	0.0425U	0.248U	0.0351U	0.0503U
Trichlorofluoromethane	15,000	69,000	>Max	>Csat	190	230	52	0.170U	0.991U	0.140U	0.201U
1,2,3-Trichloropropane	NE	NE	NE	NE	NE	NE	0.000019	0.0849U	0.496U	0.0701U	0.101U
1,2,4-Trimethylbenzene	860	2,900	81,000	>Csat	140	43	10	0.0849U	0.496U	0.0701U	0.101U
1,3,5-Trimethylbenzene	860	2,900	81,000	>Csat	98	45	11	0.0849U	0.496U	0.0701U	0.101U
Vinyl chloride	0.80	34	950	6.5	0.053	0.0014	0.00057	**0.0425U**	**0.248U**	**0.0351U**	**0.0503U**
m,p-Xylene	NE	NE	NE	NE	NE	NE	11	0.0849U	0.496U	0.0701U	0.101U
o-Xylene	NE	NE	NE	NE	NE	NE	1	0.0425U	0.248U	0.0351U	0.0503U
Xylenes	2,900	20,000	560,000	>Csat	160	87	1.4	0.0425U	0.248U	0.0351U	0.0503U

See notes on next page.

Table 3. Soil Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Analytical data highlighted in blue indicates the value exceeded the Clean Fill Value.

Data Qualifiers:

M-02 - Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NE - No RBC levels are established for this chemical.

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

Table 4. Soil Samples Analytical Results - Chlorinated Phenolic Compounds
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
Chlorinated Phenolic Compounds (mg/kg) **USEPA 8270E**													
Pentachlorophenol (PCP)	2.6	270	7,400	NV	NV	0.23	0.066	**0.464U, R-04**	0.204U, R-04	0.147U, R-04	0.0354U	0.0376U	**0.326U**
2,3,4,6- & 2,3,4,5-Tetrachlorophenol(s)	NE	NE	NE	NE	NE	NE	11 (g)	0.231U, R-04	0.102U, R-04	0.0731U, R-04	0.0176U	0.0187U	0.162U
2,3,5,6-Tetrachlorophenol	NE	NE	NE	NE	NE	NE	NE	0.231U, R-04	0.102U, R-04	0.0731U, R-04	0.0176U	0.0187U	0.162U
2,4,6-Trichlorophenol	120	34	960	NV	NV	8.9	2.4	0.231U, R-04	0.102U, R-04	0.0731U, R-04	0.0176U	0.0187U	0.162U

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Phenolic Compounds
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
Chlorinated Phenolic Compounds (mg/kg) USEPA 8270E													
Pentachlorophenol (PCP)	2.6	270	7,400	NV	NV	0.23	0.066	**0.368U**	**0.343U**	0.0380U	**0.344U**	**0.932U**	0.0311U
2,3,4,6- & 2,3,4,5-Tetrachlorophenol(s)	NE	NE	NE	NE	NE	NE	11 (g)	0.183U	0.171U	0.0189U	0.171U	0.464U	0.0155U
2,3,5,6-Tetrachlorophenol	NE	NE	NE	NE	NE	NE	NE	0.183U	0.171U	0.0189U	0.171U	0.464U	0.0155U
2,4,6-Trichlorophenol	120	34	960	NV	NV	8.9	2.4	0.183U	0.171U	0.0189U	0.171U	0.464U	0.0155U

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Phenolic Compounds
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D
								E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area
								0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
Chlorinated Phenolic Compounds (mg/kg) USEPA 8270E													
Pentachlorophenol (PCP)	2.6	270	7,400	NV	NV	0.23	0.066	0.0288U	0.0370U	0.0303U	**1.56U**	0.124U	0.121U
2,3,4,6- & 2,3,4,5-Tetrachlorophenol(s)	NE	NE	NE	NE	NE	NE	11 (g)	0.0143U	0.0184U	0.0151U	0.777U	0.0619U	0.0603U
2,3,5,6-Tetrachlorophenol	NE	NE	NE	NE	NE	NE	NE	0.0143U	0.0184U	0.0151U	0.777U	0.0619U	0.0603U
2,4,6-Trichlorophenol	120	34	960	NV	NV	8.9	2.4	0.0143U	0.0184U	0.0151U	0.777U	0.0619U	0.0603U

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Phenolic Compounds
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples			
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-10S	TP-10D	TP-11S	TP-11D
								W Boundary	W Boundary	SW Area	SW Area
								0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21
Chlorinated Phenolic Compounds (mg/kg) USEPA 8270E											
Pentachlorophenol (PCP)	2.6	270	7,400	NV	NV	0.23	0.066	**0.310U**	**1.12U**	0.0305U	0.158U
2,3,4,6- & 2,3,4,5-Tetrachlorophenol(s)	NE	NE	NE	NE	NE	NE	11 (g)	0.155U	0.558U	0.0152U	0.0787U
2,3,5,6-Tetrachlorophenol	NE	NE	NE	NE	NE	NE	NE	0.155U	0.558U	0.0152U	0.0787U
2,4,6-Trichlorophenol	120	34	960	NV	NV	8.9	2.4	0.155U	0.558U	0.0152U	0.0787U

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Phenolic Compounds
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the November 1, 2015 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

(g) Clean Fill Value is for 2,3,4,6-Tetrachlorophenol.

Symbols/Acronyms:

bgs - below ground surface

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NE - No RBC levels are established for this chemical.

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

Table 5. Soil Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
PCBs (mg/kg) **USEPA Method 8082A**													
Aroclor 1016	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	1.1	0.0179U, C-07	0.0155U, C-07	0.0138U, C-07	0.0136U, C-07	0.0140U, C-07	0.0122U, C-07
Aroclor 1221	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0179U, C-07	0.0155U, C-07	0.0138U, C-07	0.0136U, C-07	0.0140U, C-07	0.0122U, C-07
Aroclor 1232	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0179U, C-07	0.0155U, C-07	0.0138U, C-07	0.0136U, C-07	0.0140U, C-07	0.0122U, C-07
Aroclor 1242	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0179U, C-07	0.0155U, C-07	0.0138U, C-07	0.0136U, C-07	0.0140U, C-07	0.0122U, C-07
Aroclor 1248	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0073	0.0179U, C-07	0.0155U, C-07	0.0138U, C-07	0.0136U, C-07	0.0140U, C-07	0.0122U, C-07
Aroclor 1254	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0179U, C-07	0.0155U, C-07	0.0138U, C-07	0.0136U, C-07	0.0140U, C-07	0.0122U, C-07
Aroclor 1260	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.24	0.0179U, C-07	0.0155U, C-07	0.0138U, C-07	0.0136U, C-07	0.0140U, C-07	0.0122U, C-07

See notes on next page.

Table 5. Soil Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
PCBs (mg/kg) **USEPA Method 8082A**													
Aroclor 1016	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	1.1	0.0136U, C-07	0.0128U, C-07	0.0140U, C-07	0.0129U, C-07	0.0172U, C-07	0.0115U, C-07
Aroclor 1221	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0136U, C-07	0.0128U, C-07	0.0140U, C-07	0.0129U, C-07	0.0172U, C-07	0.0115U, C-07
Aroclor 1232	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0136U, C-07	0.0128U, C-07	0.0140U, C-07	0.0129U, C-07	0.0172U, C-07	0.0115U, C-07
Aroclor 1242	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0136U, C-07	0.0128U, C-07	0.0140U, C-07	0.0129U, C-07	0.0172U, C-07	0.0115U, C-07
Aroclor 1248	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0073	0.0136U, C-07	0.0128U, C-07	0.0140U, C-07	0.0129U, C-07	0.0172U, C-07	0.0115U, C-07
Aroclor 1254	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0136U, C-07	0.0128U, C-07	0.0140U, C-07	0.0129U, C-07	0.0172U, C-07	0.0115U, C-07
Aroclor 1260	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.24	0.0136U, C-07	0.0128U, C-07	0.0140U, C-07	0.0129U, C-07	0.0172U, C-07	0.0115U, C-07

See notes on next page.

Table 5. Soil Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D
								E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area
								0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
PCBs (mg/kg) USEPA Method 8082A													
Aroclor 1016	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	1.1	0.0111U, C-07	0.0138U, C-07	0.0111U, C-07	0.0141U, C-07	0.0111U, C-07	0.0113U, C-07
Aroclor 1221	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0111U, C-07	0.0138U, C-07	0.0111U, C-07	0.0141U, C-07	0.0111U, C-07	0.0113U, C-07
Aroclor 1232	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0111U, C-07	0.0138U, C-07	0.0111U, C-07	0.0141U, C-07	0.0111U, C-07	0.0113U, C-07
Aroclor 1242	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0111U, C-07	0.0138U, C-07	0.0111U, C-07	0.0141U, C-07	0.0111U, C-07	0.0113U, C-07
Aroclor 1248	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0073	0.0111U, C-07	0.0138U, C-07	0.0111U, C-07	0.0141U, C-07	0.0111U, C-07	0.0113U, C-07
Aroclor 1254	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0111U, C-07	0.0138U, C-07	0.0111U, C-07	0.0141U, C-07	0.0111U, C-07	0.0113U, C-07
Aroclor 1260	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.24	0.0111U, C-07	0.0138U, C-07	0.0111U, C-07	0.0141U, C-07	0.0111U, C-07	0.0113U, C-07

See notes on next page.

Table 5. Soil Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (f)	Test Pit Samples			
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-10S	TP-10D	TP-11S	TP-11D
								W Boundary	W Boundary	SW Area	SW Area
								0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21
PCBs (mg/kg) USEPA Method 8082A											
Aroclor 1016	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	1.1	0.0113U, C-07	0.133U, C-07	0.0114U, C-07	0.0148U, C-07
Aroclor 1221	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0113U, C-07	0.133U, C-07	0.0114U, C-07	0.0148U, C-07
Aroclor 1232	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0048	0.0113U, C-07	0.133U, C-07	0.0114U, C-07	0.0148U, C-07
Aroclor 1242	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0113U, C-07	0.133U, C-07	0.0114U, C-07	0.0148U, C-07
Aroclor 1248	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.0073	0.0113U, C-07	0.133U, C-07	0.0114U, C-07	0.0148U, C-07
Aroclor 1254	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.041	0.0113U, C-07	0.133U, C-07	0.0114U, C-07	0.0148U, C-07
Aroclor 1260	0.33 (g)	4.9 (g)	140 (g)	>Csat (g)	>Csat (g)	1.1 (g)	0.24	0.0113U, C-07	0.133U, C-07	0.0114U, C-07	0.0148U, C-07

See notes on next page.

Table 5. Soil Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Data Qualifiers:

C-07 - Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.

U - The analyte was analyzed for, but was not detected above the analytical laboratory's method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from theMay 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

(g) RBCs are for total of PCBs Aroclors.

Symbols/Acronyms:

bgs - below ground surface

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NE - No RBC levels are established for this chemical.

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

Table 6. Soil Samples Analytical Results - Dioxins and Furans
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (g)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
Dioxins and Furans (ng/kg) USEPA 1613B													
2,3,7,8-TCDD Calculated TEQ concentration	12	170	4,800	24,000	24,000	31	0.29	NA	NA	NA	NA	NA	NA

Table 6. Soil Samples Analytical Results - Dioxins and Furans
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (g)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
Dioxins and Furans (ng/kg) USEPA 1613B													
2,3,7,8-TCDD Calculated TEQ concentration	12	170	4,800	24,000	24,000	31	0.29	NA	NA	NA	NA	NA	NA

Table 6. Soil Samples Analytical Results - Dioxins and Furans
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (g)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D
								E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area
								0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
Dioxins and Furans (ng/kg) USEPA 1613B													
2,3,7,8-TCDD Calculated TEQ concentration	12	170	4,800	24,000	24,000	31	0.29	**0.00753**	0.0	**0.00579**	0.0	0.0	**0.00549**

Table 6. Soil Samples Analytical Results - Dioxins and Furans
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ Clean Fill Values (g)	Test Pit Samples			
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-10S	TP-10D	TP-11S	TP-11D
								W Boundary	W Boundary	SW Area	SW Area
								0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21
Dioxins and Furans (ng/kg) USEPA 1613B											
2,3,7,8-TCDD Calculated TEQ concentration	12	170	4,800	24,000	24,000	31	0.29	**0.00900**	**0.0771**	**0.00271**	**0.0763**

Table 6. Soil Samples Analytical Results - Dioxins and Furans
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

Data Qualifiers:

Footnotes:

(a) Risk-Based Concentrations are referenced from the November 1, 2015 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future.

(f) To compare soil analytical results of dioxins to DEQ's RBCs, the laboratory calculated 2,3,7,8-TCDD Toxicity Equivalent Quotient (TEQ) concentration. The TEQ was obtained by multiplying the individual congener results by a Toxicity Equivalency Factor (TEF) and summing them to derive a TEQ value for each sample. This method was developed by USEPA in 1987 and revised in 2007 (40 CFR Parts 9 and 372, Dioxin and Dioxin-Like Compounds; Toxic Equivalency Information; Community Right-To-Know Toxic Chemical Release Reporting). The TEFs are based on the USEPA report: Recommended Toxicity Equivalence Factors for Human Health Risk Assessments of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-Like Compounds, published in December 2010. The TEF values used were published by World Health Organization (WHO) in The 2005 WHO Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006). The TEQ was calculated assuming all congeners were present at 1.0 times their quantitation limit. The non-detected compounds are not included in the Total TEQ calculation.

(g) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

NA - Sample was not analyzed for this analyte

ng/kg - nanograms per kilogram

RBC - risk-based concentration

TEF - Toxicity Equivalent Factor

TEQ - Toxicity Equivalent Quotient

USEPA - United States Environmental Protection Agency

Table 7. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ's Clean fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9
								SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area
								2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21
Total Metals (mg/kg) USEPA 6020B (ICPMS)													
Arsenic	1.0	15	420	NV	NV	*	12	**3.19**	**1.60**	**1.80**	**1.39U**	**1.45U**	**6.79**
Barium	31,000	69,000	>Max	NV	NV	*	630	**74.9**	**183**	**145**	**115**	**97.8**	**28.1**
Cadmium	160	350	9,700	NV	NV	*	0.52	0.377U	0.320U	0.274U	0.277U	0.290U	0.262U
Chromium (III)	230,000	530,000	>Max	NV	NV	*	890	**35.8**	**89.2**	**76.7**	**69.8**	**76.3**	**12.7**
Lead	400	800	800	NV	NV	30	36	**15.4**	**3.79**	**6.46**	**3.05**	**3.37**	**3.55**
Mercury	47	110	2,900	NV	NV	*	0.17	0.151U	0.128U	0.110U	0.111U	0.116U	0.105U
Selenium	NE	NE	NE	NV	NV	NE	0.8	1.88U	1.60U	1.37U	NA	1.45U	1.31U
Silver	780	1,800	49,000	NV	NV	*	0.16	0.377U	0.320U	0.274U	0.277U	0.290U	0.262U

See notes on next page.

Table 7. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ's Clean fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
								SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
								0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
Total Metals (mg/kg) USEPA 6020B (ICPMS)													
Arsenic	1.0	15	420	NV	NV	*	12	**3.49**	**2.56**	**1.66**	**1.61**	**1.81U**	**3.64**
Barium	31,000	69,000	>Max	NV	NV	*	630	**167**	**57.4**	**172**	**44**	**21.6**	**49.1**
Cadmium	160	350	9,700	NV	NV	*	0.52	0.282U	**0.478**	0.288U	0.274U	0.362U	0.259U
Chromium (III)	230,000	530,000	>Max	NV	NV	*	890	**88.8**	**21.0**	**71.7**	**12.1**	**13.1**	**50.2**
Lead	400	800	800	NV	NV	30	36	**16.4**	**8.23**	**3.98**	**5.78**	**7.75**	**8.61**
Mercury	47	110	2,900	NV	NV	*	0.17	0.113U	0.103U	0.115U	0.110U	0.145U	0.103U
Selenium	NE	NE	NE	NV	NV	NE	0.8	1.41U	1.28U	1.44U	1.37U	1.81U	1.29U
Silver	780	1,800	49,000	NV	NV	*	0.16	0.282U	0.257U	0.288U	0.274U	0.362U	0.259U

See notes on next page.

Table 7. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ's Clean fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D
								E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area
								0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
Total Metals (mg/kg) USEPA 6020B (ICPMS)													
Arsenic	1.0	15	420	NV	NV	*	12	**1.16U**	**1.43U**	**1.15U**	**1.83**	**1.67**	**1.37**
Barium	31,000	69,000	>Max	NV	NV	*	630	**25.4**	**120**	**7.52**	**146**	**52.3**	**19.0**
Cadmium	160	350	9,700	NV	NV	*	0.52	0.232U	0.287U	0.230U	0.310U	0.237U	0.223U
Chromium (III)	230,000	530,000	>Max	NV	NV	*	890	**5.82**	**75.0**	**7.55**	**71.2**	**10.6**	**10.4**
Lead	400	800	800	NV	NV	30	36	**0.48**	**3.47**	**0.465**	**3.75**	**2.22**	**3.49**
Mercury	47	110	2,900	NV	NV	*	0.17	0.0927U	0.115U	0.0919U	0.124U	0.0947U	0.0891U
Selenium	NE	NE	NE	NV	NV	NE	0.8	1.16U	1.43U	1.15U	1.55U	1.18U	1.11U
Silver	780	1,800	49,000	NV	NV	*	0.16	0.232U	0.287U	0.230U	0.310U	0.237U	0.223U

See notes on next page.

Table 7. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil (a)						DEQ's Clean fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples			
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		TP-10S	TP-10D	TP-11S	TP-11D
								W Boundary	W Boundary	SW Area	SW Area
								0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
	Urban Residential	Construction Worker	Excavation Worker	Urban Residential	Urban Residential	Urban Residential		03/11/21	03/11/21	03/11/21	03/11/21
Total Metals (mg/kg) USEPA 6020B (ICPMS)											
Arsenic	1.0	15	420	NV	NV	*	12	**6.68**	**3.04U**	**1.22**	**1.59U**
Barium	31,000	69,000	>Max	NV	NV	*	630	**20.4**	**22.3**	**15.2**	**39.4**
Cadmium	160	350	9,700	NV	NV	*	0.52	0.241U	0.609U	0.234U	0.319U
Chromium (III)	230,000	530,000	>Max	NV	NV	*	890	**11.5**	**3.75**	**13.6**	**11.5**
Lead	400	800	800	NV	NV	30	36	**2.95**	**3.29**	**2.11**	**1.87**
Mercury	47	110	2,900	NV	NV	*	0.17	0.0963U	0.243U	0.0938U	0.127U
Selenium	NE	NE	NE	NV	NV	NE	0.8	**1.56**	3.04U	1.17U	1.59U
Silver	780	1,800	49,000	NV	NV	*	0.16	0.241U	0.609U	0.234U	0.319U

See notes on next page.

Table 7. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Analytical data highlighted in yellow indicates the value exceeded a generic RBC.

Analytical data highlighted in blue indicates the value exceeded the Clean Fill Value.

* - Leaching to groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory's method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making (RBDM) for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) DEQ's Background Concentrations in Soil are referenced from the DEQ's Development of Oregon Background Metals Concentrations in Soil technical report dated March 2013. The background concentrations included in this table are 95% Upper Prediction Limit (UPL) for the Klamath Mountains region, which includes the Roseburg area and the Site.

(g) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NE - No RBC levels are established for this chemical.

NV - The chemical is considered "nonvolatile" for the purposes of the exposure calculations.

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

Table 8. Soil Samples Analytical Results - Toxicity Characteristic Leaching Procedure (TCLP) Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	USEPA's Maximum Concentration of Contamination for the "toxicity" Chatacrteristic (a)	Test Pit Samples											
		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9	TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
		SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area	SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
		2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs
		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
TCLP Metals (µg/L) USEPA 6020B (ICPMS)													
Arsenic	5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	100,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes on next page.

Table 8. Soil Samples Analytical Results - Toxicity Characteristic Leaching Procedure (TCLP) Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	USEPA's Maximum Concentration of Contamination for the "toxicity" Chatacrteristic (a)	Test Pit Samples									
		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D	TP-10S	TP-10D	TP-11S	TP-11D
		E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area	W Boundary	W Boundary	SW Area	SW Area
		0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs	0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
TCLP Metals (µg/L) USEPA 6020B (ICPMS)											
Arsenic	5,000	100U	NA	100U	NA	100U	NA	100U	NA	100U	NA
Barium	100,000	5,000U	NA	5,000U	NA	5,000U	NA	5,000U	NA	5,000U	NA
Cadmium	1,000	100U	NA	100U	NA	100U	NA	100U	NA	100U	NA
Chromium (III)	5,000	100U	NA	100U	NA	100U	NA	100U	NA	100U	NA
Lead	5,000	50.0U	NA	50.0U	NA	50.0U	NA	50.0U	NA	50.0U	NA
Mercury	200	7.00U	NA	7.00U	NA	7.00U	NA	7.00U	NA	7.00U	NA
Selenium	1,000	100U	NA	100U	NA	100U	NA	100U	NA	100U	NA
Silver	5,000	100U	NA	100U	NA	100U	NA	100U	NA	100U	NA

See notes on next page.

Table 8. Soil and UST Liquid Samples Analytical Results - Toxicity Characteristic Leaching Procedure (TCLP) Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

Sample highlighted in grey indicates the soil in that location was excavated and disposed of at Dry Creek Landfill.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) The USEPA 's TCLP limits are used to define whether a waste is hazardous or non-hazardous.

(b) Sample MA1&3 is a soil sample. The soil in the MA1&3 area was removed during the UST decommissioning activities and disposed of at Dry Creek Landfill in November 2018.

(c) Suspended particles or sludge.

Symbols/Acronyms:

bgs - below ground surface

ft - feet

NA - Sample was not analyzed for this analyte.

µg/L - micrograms per liter

TCLP - Toxicity Characteristic Leaching Procedure

USEPA - United States Environmental Protection Agency

UST - underground storage tank

Table 9. Soil Samples Analytical Results - Total Asbestos
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	Asbestos Containing Material (a)	Test Pit Samples											
		TP-1	TP-2	TP-3	TP-5	TP-7	TP-9	TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
		SE Area	SE Area	SE Area	E Boundary	NW Area	Central Area	SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area
		2.5-3.5 ft bgs	3.0-4.0 ft bgs	2.5-3.5 ft bgs	0.2-3.2 ft bgs	0.2-3.2 ft bgs	0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.0-3.0 ft bgs	0.75-3.75 ft bgs	2.2-5.2 ft bgs	1.25-4.25 ft bgs	0.75-3.75 ft bgs
		03/12/21	03/12/21	03/12/21	03/11/21	03/11/21	03/11/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/11/21
Total Asbestos (percent) Bulk Asbestos Analysis by USEPA 600/R-93/116, PLM													
Total Asbestos	1.00	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U

See notes on next page.

Table 9. Soil Samples Analytical Results - Total Asbestos
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

	Asbestos Containing Material (a)	Test Pit Samples									
		TP-4S	TP-4D	TP-6-S	TP-6D	TP-8S	TP-8D	TP-10S	TP-10D	TP-11S	TP-11D
		E-SE Area	E-SE Area	NE Area	NE Area	NW-Central Area	NW-Central Area	W Boundary	W Boundary	SW Area	SW Area
		0.0-1.3 ft bgs	1.3-4.3 ft bgs	0.0-2.0 ft bgs	2.0-5.0 ft bgs	0.0-2.7 ft bgs	2.7-4.5 ft bgs	0.0-3.3 ft bgs	3.3-6.3 ft bgs	0.0-2.5 ft bgs	2.5-5.5 ft bgs
Parameter		03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21
Total Asbestos (percent) Bulk Asbestos Analysis by USEPA 600/R-93/116, PLM											
Total Asbestos	1.00	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U

See notes on next page.

Table 9. Soil Samples Analytical Results - Total Asbestos
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Asbestos-containing material is defined by the USEPA's Asbestos NESHAP, as any material containing more than one percent (1%) asbestos.

Symbols/Acronyms:

bgs - below ground surface
ft - feet
NESHAP - National Emission Standards for Hazardous Air Pollutants
PLM - Polarized Light Microscopy
USEPA - United States Environmental Protection Agency

Table 10. Groundwater Samples Analytical Results - Total Petroleum Hydrocarbons (TPHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)				Temporary Wells Groundwater Samples						Test Pit Water
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)	TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW
					SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21
TPHs (µg/L) **DEQ Method NWTPH-Dx & NWTPH-Gx**											
Diesel-range	100	>S	>S	>S	93.0U. PRES	84.2U, PRES	89.9U	**173 F-13**	**131 F-13, PRES**	**135 F-13, PRES**	**345 F-13**
Oil-range	100	>S	>S	>S	**186U, PRES**	**190 F-13, PRES**	**180U**	**186U**	**742 F-13, PRES**	**178U, PRES**	**186U**
Gasoline-range	110	>S	22,000	14,000	100U	100U	100U	100U	100U	100U	**415**

See notes on next page.

Table 10. Groundwater Samples Analytical Results - Total Petroleum Hydrocarbons (TPHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

Analytical data highlighted in yellow indicates the value exceeded a generic RBC.

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Data Qualifiers:

F-13 - The chromatographic pattern does not resemble the fuel standard used for quantitation.

PRES - Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime groundwater contamination is found in an aquifer that is currently used or is reasonably likely to be used for drinking water.

(c) This pathway is applicable whenever the groundwater is contaminated with volatile compounds.

(d) This pathway is applicable whenever volatile compounds in groundwater are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

(e) This pathway is applicable in cases where construction or excavation workers may come into contact with contaminated groundwater in a semi-enclosed space such as an excavation.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

µg/L - micrograms per liter

RBC - risk-based concentration

>S - This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

Table 11. Groundwater Samples Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)				Temporary Wells Groundwater Samples						Test Pit Water
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)	TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW
					SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21
PAHs (µg/L) USEPA Method 8270D SIM											
Acenaphthene	2,400	>S	>S	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Acenaphthylene	NE	NE	NE	NE	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Anthracene	>S	>S	>S	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Benz(a)anthracene	0.11	>S	>S	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Benzo(a)pyrene	0.080	NV	NV	>S	0.0323U	0.0283U	0.0330U	0.0326U	0.0309U	0.0303U	1.17U
Benzo(b)fluoranthene	>S	NV	NV	>S	0.0323U	0.0283U	0.0330U	0.0326U	0.0309U	0.0303U	1.17U
Benzo(k)fluoranthene	>S	NV	NV	>S	0.0323U	0.0283U	0.0330U	0.0326U	0.0309U	0.0303U	1.17U
Benzo(g,h,i)perylene	NE	NE	NE	NE	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Chrysene	>S	NV	NV	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Dibenz(a,h)anthracene	0.080	NV	NV	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Fluoranthene	>S	NV	NV	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Fluorene	1,400	>S	>S	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Indeno(1,2,3-cd)pyrene	>S	NV	NV	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
1-Methylnaphthalene	NE	NE	NE	NE	0.0430U	0.0377U	0.0440U	0.0435U	0.0412U	0.0404U	**3.06**
2-Methylnaphthalene	NE	NE	NE	NE	0.0430U	0.0377U	0.0440U	0.0435U	0.0412U	0.0404U	**3.94**
Naphthalene	0.78	8,500	2,000	500	0.0430U	0.0377U	0.0440U	0.0435U	0.0412U	0.0404U	**1.90**
Phenanthrene	NE	NE	NE	NE	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	**0.851**
Pyrene	>S	>S	>S	>S	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U
Carbazole	NE	NE	NE	NE	0.0323U	0.0283U	0.0330U	0.0326U	0.0309U	0.0303U	1.17U
Dibenzofuran	NE	NE	NE	NE	0.0215U	0.0189U	0.0220U	0.0217U	0.0206U	0.0202U	0.777U

See notes on next page.

Table 11. Groundwater Samples Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Analytical data highlighted in yellow indicates the value exceeded a generic RBC.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime groundwater contamination is found in an aquifer that is currently used or is reasonably likely to be used for drinking water.

(c) This pathway is applicable whenever the groundwater is contaminated with volatile compounds.

(d) This pathway is applicable whenever volatile compounds in groundwater are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

(e) This pathway is applicable in cases where construction or excavation workers may come into contact with contaminated groundwater in a semi-enclosed space such as an excavation.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

NE - No RBC levels are established for this chemical.

µg/L - micrograms per liter

RBC - risk-based concentration

>S - This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

USEPA - United States Environmental Protection Agency

Table 12. Groundwater Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)				Temporary Wells Groundwater Samples						Test Pit Water	Trip Blank
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)	TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW	
					SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area	
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	3/12/2021
VOCs (µg/L) USEPA Method 8260D												
Acetone	NE	NE	NE	NE	20.0U	20.0U	20.0U	20.0U	**31.5**	20.0U	20.0U	20.0U
Acrylonitrile	0.23	5300	1700	250	**2.00U**	**2.00U**	**2.00U**	**2.00U**	**2.00U**	**2.00U**	**2.00U**	**2.00U**
Benzene	2.0	7,400	510	1,800	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U
Bromobenzene	NE	NE	NE	NE	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
Bromochloromethane	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Bromodichloromethane	0.62	3,200	420	450	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**
Bromoform	15	300,000	85,000	14,000	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Bromomethane	28	32,000	2,100	1,200	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U
2-Butanone (MEK)	NE	NE	NE	NE	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
n-Butylbenzene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	**1.55 M-02**	1.00U
sec-Butylbenzene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	**1.10**	1.00U
tert-Butylbenzene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Carbon disulfide	NE	NE	NE	NE	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
Carbon tetrachloride	2.0	4,200	220	1,800	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Chlorobenzene	290	>S	67,000	10,000	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
Chloroethane (ethyl chloride)	76,000	>S	2,800,000	2,400,000	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U
Chloroform	1.0	3,400	290	720	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**
Chloromethane	690	440,000	26,000	22,000	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U
2-Chlorotoluene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
4-Chlorotoluene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Chlorodibromomethane	0.77	9,300	2,300	610	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**	**1.00U**
1,2-Dibromo-3-chloropropane	NE	NE	NE	NE	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U
1,2-dibromoethane (EDB)	0.034	430	110	27	**0.500U**	**0.500U**	**0.500U**	**0.500U**	**0.500U**	**0.500U**	**0.500U**	**0.500U**
Dibromoethane	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
1,2-Dichlorobenzene	1,200	>S	>S	37,000	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
1,3-Dichlorobenzene	NE	NE	NE	NE	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
1,4-Dichlorobenzene	2.3	12,000	1,300	1,500	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
Dichlorodifluoromethane	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
1,1-Dichloroethane	13	37,000	2,600	10,000	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
1,2-dichloroethane (EDC)	0.78	4,900	700	630	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
1,1-Dichloroethene	1,100	570,000	29,000	44,000	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
cis-1,2-Dichloroethene	140	>S	>S	18,000	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
trans-1,2-Dichloroethene	1,400	>S	>S	180,000	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
1,2-Dichloropropane	NE	NE	NE	NE	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
1,3-Dichloropropane	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U

Table 12. Groundwater Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)				Temporary Wells Groundwater Samples						Test Pit Water	Trip Blank
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)	TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW	
					SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area	
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	3/12/2021
VOCs (µg/L) USEPA Method 8260D												
2,2-Dichloropropane	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
1,1-Dichloropropene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
cis-1,3-Dichloropropene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
trans-1,3-Dichloropropene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Ethylbenzene	6.7	23,000	1,500	4,500	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	**1.00**	0.500U
Hexachlorobutadiene	NE	NE	NE	NE	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U	5.00U
2-Hexanone	NE	NE	NE	NE	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
iso-Propylbenzene (cumene)	1,800	>S	>S	51,000	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	**1.00**	1.00U
4-Isopropyltoluene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Methylene chloride	NE	NE	NE	NE	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
4-Methyl-2-pentanone (MiBK)	NE	NE	NE	NE	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
methyl t-butyl ether (MTBE)	64	830,000	160,000	63,000	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Naphthalene	0.78	8,500	2,000	500	**4.00U**	**4.00U**	**4.00U**	**4.00U**	**4.00U**	**4.00U**	**4.00U**	**4.00U**
n-Propylbenzene	NE	NE	NE	NE	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	**3.30**	0.500U
Styrene	4,600	>S	>S	170,000	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
Tetrachloroethene (PCE)	49	150,000	8,700	34,000	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
Toluene	4,400	>S	>S	220,000	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
1,2,3-Trichlorobenzene	NE	NE	NE	NE	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U
1,2,4-Trichlorobenzene	NE	NE	NE	NE	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U
1,1,1-Trichloroethane	30,000	>S	>S	1,100,000	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
1,1,2-Trichloroethane	1.3	5,600	1,000	1,000	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U
Trichloroethene (TCE)	2.0	6,900	430	3,000	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U	0.400U
Trichlorofluoromethane	4,200	780,000	36,000	160,000	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U
1,2,3-Trichloropropane	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
1,2,4-Trimethylbenzene	230	>S	50,000	6,300	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	**29.0**	1.00U
1,3,5-Trimethylbenzene	240	>S	36,000	7,500	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	**9.97**	1.00U
Vinyl chloride	0.066	430	21	960	**0.400U**	**0.400U**	**0.400U**	**0.400U**	**0.400U**	**0.400U**	**0.400U**	**0.400U**
m,p-Xylene	NE	NE	NE	NE	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	**5.18**	1.00U
0-Xylene	NE	NE	NE	NE	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	**4.35**	0.500U
Xylenes	710	>S	86,000	23,000	0.500U	0.500U	0.500U	0.500U	0.500U	0.500U	**9.53**	0.500U

See notes on next page.

Table 12. Groundwater Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Data Qualifiers:

M-02 - Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime groundwater contamination is found in an aquifer that is currently used or is reasonably likely to be used for drinking water.

(c) This pathway is applicable whenever the groundwater is contaminated with volatile compounds.

(d) This pathway is applicable whenever volatile compounds in groundwater are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

(e) This pathway is applicable in cases where construction or excavation workers may come into contact with contaminated groundwater in a semi-enclosed space such as an excavation.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

NE - No RBC levels are established for this chemical.

µg/L - micrograms per liter

RBC - risk-based concentration

>S - This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

USEPA - United States Environmental Protection Agency

Table 13. Groundwater Samples Analytical Results - Chlorinated Phenolic Compounds
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)				Temporary Wells Groundwater Samples						Test Pit Water
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)	TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW
					SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21
Chlorinated Phenolic Compounds (µg/L) USEPA 8270E											
Pentachlorophenol (PCP)	0.15	NV	NV	1,700	**0.215U**	**0.189U**	**0.220U**	**0.217U**	**0.206U**	**0.202U**	**7.77U**
2,3,4,6-Tetrachlorophenol	NE	NE	NE	NE	0.108U	0.0943U	0.110U	0.109U	0.103U	0.101U	3.88U
2,3,5,6-Tetrachlorophenol	NE	NE	NE	NE	0.108U	0.0943U	0.110U	0.109U	0.103U	0.101U	3.88U
2,4,6-Trichlorophenol	17	NV	NV	53	0.108U	0.0943U	0.110U	0.109U	0.103U	0.101U	3.88U

See notes on next page.

Table 13. Groundwater Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the November 1, 2015 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime groundwater contamination is found in an aquifer that is currently used or is reasonably likely to be used for drinking water.

(c) This pathway is applicable whenever the groundwater is contaminated with volatile compounds.

(d) This pathway is applicable whenever volatile compounds in groundwater are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

(e) This pathway is applicable in cases where construction or excavation workers may come into contact with contaminated groundwater in a semi-enclosed space such as an excavation.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

NE - No RBC levels are established for this chemical.

µg/L - micrograms per liter

RBC - risk-based concentration

>S - This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

USEPA - United States Environmental Protection Agency

Table 14. Groundwater Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)				Temporary Wells Groundwater Samples						Test Pit Water
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)	TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW
					SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21
Polychlorinated Biphenyls (PCBs) (µg/L) USEPA Method 8082A											
Aroclor 1016	0.028 (f)	>S (f)	>S (f)	30 (f)	**0.103U, C-07**	**0.105U, C-07**	**0.102U, C-07**	**0.0990U, C-07**	**0.102U, C-07**	**0.102U, C-07**	**0.106U, C-07**
Aroclor 1221	0.028 (f)	>S (f)	>S (f)	30 (f)	**0.103U, C-07**	**0.105U, C-07**	**0.102U, C-07**	**0.0990U, C-07**	**0.102U, C-07**	**0.102U, C-07**	**0.106U, C-07**
Aroclor 1232	0.028 (f)	>S (f)	>S (f)	30 (f)	**0.103U, C-07**	**0.105U, C-07**	**0.102U, C-07**	**0.0990U, C-07**	**0.102U, C-07**	**0.102U, C-07**	**0.106U, C-07**
Aroclor 1242	0.028 (f)	>S (f)	>S (f)	30 (f)	**0.103U, C-07**	**0.105U, C-07**	**0.102U, C-07**	**0.0990U, C-07**	**0.102U, C-07**	**0.102U, C-07**	**0.106U, C-07**
Aroclor 1248	0.028 (f)	>S (f)	>S (f)	30 (f)	**0.103U, C-07**	**0.105U, C-07**	**0.102U, C-07**	**0.0990U, C-07**	**0.102U, C-07**	**0.102U, C-07**	**0.106U, C-07**
Aroclor 1254	0.028 (f)	>S (f)	>S (f)	30 (f)	**0.103U, C-07**	**0.105U, C-07**	**0.102U, C-07**	**0.0990U, C-07**	**0.102U, C-07**	**0.102U, C-07**	**0.106U, C-07**
Aroclor 1260	0.028 (f)	>S (f)	>S (f)	30 (f)	**0.103U, C-07**	**0.105U, C-07**	**0.102U, C-07**	**0.0990U, C-07**	**0.102U, C-07**	**0.102U, C-07**	**0.106U, C-07**

See notes on next page.

Table 14. Groundwater Samples Analytical Results - Polychlorinated Biphenyls (PCBs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Data Qualifiers:

C-07 - Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the November 1, 2015 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime groundwater contamination is found in an aquifer that is currently used or is reasonably likely to be used for drinking water.

(c) This pathway is applicable whenever the groundwater is contaminated with volatile compounds.

(d) This pathway is applicable whenever volatile compounds in groundwater are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

(e) This pathway is applicable in cases where construction or excavation workers may come into contact with contaminated groundwater in a semi-enclosed space such as an excavation.

(f) RBCs are for total of PCBs Aroclors.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

NE - No RBC levels are established for this chemical.

µg/L - micrograms per liter

RBC - risk-based concentration

>S - This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

USEPA - United States Environmental Protection Agency

Table 15. Groundwater Samples Analytical Results - Dioxins and Furans
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)					Temporary Wells Groundwater Samples						Test Pit Water
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)		TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW
						SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21
Dioxins and Furans (pg/L) USEPA 1613B												
DEQ RBCs for 2,3,7,8-TCDD Equivalents	0.420	52,000	20,000	450	TEQ (pg/L) (f)	**0.0423**	0.0	0.0	0.0	0.0	0.0	NA

See notes on next page.

Table 15. Groundwater Samples Analytical Results - Dioxins and Furans
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's estimated detection limit.

The laboratory estimated detection limits that exceed one or more RBCs are indicated with blue font.

Data Qualifiers:

Footnotes:

(a) Risk-Based Concentrations are referenced from the November 1, 2015 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime groundwater contamination is found in an aquifer that is currently used or is reasonably likely to be used for drinking water.

(c) This pathway is applicable whenever the groundwater is contaminated with volatile compounds.

(d) This pathway is applicable whenever volatile compounds in groundwater are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

(e) This pathway is applicable in cases where construction or excavation workers may come into contact with contaminated groundwater in a semi-enclosed space such as an excavation.

(f) To compare soil analytical results of dioxins to DEQ's RBCs, the laboratory provided 2,3,7,8-TCDD toxicity equivalent concentration (TEQ). The TEQ was obtained by multiplying the individual congener results by a Toxicity Equivalency Factor (TEF) and summing them to derive a TEQ value for each sample. This method was developed by USEPA in 1987 and revised in 2007 (40 CFR Parts 9 and 372, Dioxin and Dioxin-Like Compounds; Toxic Equivalency Information; Community Right-To-Know Toxic Chemical Release Reporting). The TEF values used were published by World Health Organization (WHO) in The 2005 WHO Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006). The TEQ was calculated assuming all congeners were present at 1.0 times their quantitation limit. The non-detected compounds are not included in the Total TEQ calculation.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

NA - Sample was not analyzed for this analyte.

pg/L - picograms per liter

RBC - risk-based concentration

TEF - Toxicity Equivalent Factor

TEQ - Toxicity Equivalent Quotient

USEPA - United States Environmental Protection Agency

Table 16. Groundwater Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Groundwater (a)				USEPA MCL (f)(g) or as noted	Temporary Wells Groundwater Samples						Test Pit Water
	Ingestion and Inhalation from Tapwater (b)	Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Groundwater in Excavation (e)		TW-1 GW	TW-2 GW	TW-3 GW	TW-4 GW	TW-5 GW	TW-6 GW	TP-6 GW
						SE Area	SE Area	NE Area	NW Area	W Boundary	SW Area	NE Area
	Urban Residential	Urban Residential	Urban Residential	Construction & Excavation Worker		03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21	03/12/21
Total Metals (µg/L) USEPA Method 6020B (ICPMS)												
Arsenic	0.21	NV	NV	6,300	10	**3.23**	**1.00U**	**1.86**	**1.00U**	**2.08**	**3.56**	**1.00U**
Barium	15,000	NV	NV	>S	2,000	**74.1**	**20.6**	**8.03**	**32.3**	**10.0**	**26.9**	**19.9**
Cadmium	73	NV	NV	130,000	5	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U
Chromium (III)	110,000	NV	NV	>S	100	**47.1**	**3.09**	**5.51**	1.00U	**7.29**	**42.1**	**8.92**
Lead	15	NV	NV	>S	15 (h)(i)	**3.61**	**0.292**	**0.637**	0.200U	**0.684**	**3.08**	**0.77**
Mercury	22	NV	NV	>S	2	0.0800U	0.0800U	0.0800U	0.0800U	0.0800U	0.0800U	0.0800U
Selenium	NE	NE	NE	NE	50	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Silver	370	NV	NV	1,100,000	100	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U
Dissolved Metals (µg/L) USEPA Method 6020B (ICPMS)												
Arsenic	0.21	NV	NV	6,300	10	**1.54**	**1.00U**	**1.45**	**1.00U**	**1.36**	**1.00U**	**1.00U**
Barium	15,000	NV	NV	>S	2,000	**20.1**	**3.68**	**3.28**	**30.7**	**5.86**	**11.3**	**7.84**
Cadmium	73	NV	NV	130,000	5	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U
Chromium (III)	110,000	NV	NV	>S	100	**1.66**	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Lead	15	NV	NV	>S	15 (i)	**0.203**	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U
Mercury	22	NV	NV	>S	2	0.0800U	0.0800U	0.0800U	0.0800U	0.0800U	0.0800U	0.0800U
Selenium	NE	NE	NE	NE	50	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
Silver	370	NV	NV	1,100,000	100	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U	0.200U

See notes on next page.

Table 16. Groundwater Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory's method reporting limit.

The laboratory method reporting limits that exceed one or more RBCs are indicated with bold blue font.

Analytical data highlighted in yellow indicates the value exceeded a generic RBC.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime groundwater contamination is found in an aquifer that is currently used or is reasonably likely to be used for drinking water.

(c) This pathway is applicable whenever the groundwater is contaminated with volatile compounds.

(d) This pathway is applicable whenever volatile compounds in groundwater are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

(e) This pathway is applicable in cases where construction or excavation workers may come into contact with contaminated groundwater in a semi-enclosed space such as an excavation.

(f) USEPA MCLs are referenced from the National Primary Drinking Water Regulations for arsenic, barium, cadmium, chromium (total), lead, mercury, and selenium and the National Secondary Drinking Water Regulations for silver.

(g) MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards. (MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.)

(h) Lead is regulated by a TT that requires systems to control the corrosiveness of their water. If more than 10 percent of tap water samples exceed the action level, water systems must take additional steps. For lead, the actionlevel is 15 µg/L.

(i) TT is a required process intended to reduce the level of a contaminant in drinking water.

Symbols/Acronyms:

bgs - below ground surface

DEQ - Department of Environmental Quality

ft - feet

MCL - maximum contaminant level

NE - No RBC levels are established for this chemical.

NV - The chemical is considered "nonvolatile" for the purposes of the exposure calculations.

µg/L - micrograms per liter

RBC - risk-based concentration

>S - This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

USEPA - United States Environmental Protection Agency

Table 17. Depths to Water in Temporary Wells and Test Pits
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Identifier	Depth to Water (feet bgs)
TW-1	3.45
TW-2	3.97
TW-3	11.50
TW-4	5.60
TW-5	13.30
TW-6	11.60
TP-4	7.8
TP-6	4.0

Notes:

TW = Temporary Well

TP = Test Pit

bgs = below ground surface

Depths to water in temporary wells measured the morning of March 12, 2021 after purging on March 11, 2021.

All other test pits were dry before backfilling.

Table 18. Soil Gas Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

	DEQ RBCs for Soil Gas (a)	Soil Gas Samples											
		SG-1	SG-2	SG-3	SG-4	SG-5	SG-6	SG-7	SG-8	SG-9	SG-10	SG-TP-1	SG-TP-6
	Vapor Intrusion into Buildings (b)	SE Area	E-SE Area	E-Central Area	NE Area	NW Area	NW-Central Area	Central-N Area	Central Area	Central-S Area	W-SW Area	SE Area	SW Area
Parameter	Urban Residential	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/12/21	03/12/21	03/12/21	03/12/21	4/7/2021	4/7/2021
Helium (µg/m^3) **USEPA Method 3C Modified and Method D1946**													
Helium	Not Applicable	**57,000**	**94,000**	**240,000**	41,000U	**680,000**	**150,000**	**1,000,000**	**600,000**	41,000U	**180,000**	**8,344**	**16,360**
Methane (percent by volume) **USEPA Method D1946 - Fixed Gases in Air**													
Methane	Not Applicable	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	NA	NA
TPHs (µg/m^3) **USEPA Method TO-3 Modified**													
Gasoline	79,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18,000U	18,000U

See notes on next page.

Table 18. Soil Gas Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable whenever volatile compounds are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

Symbols/Acronyms:

DEQ - Department of Environmental Quality

NA - Sample was not analyzed for this analyte

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

$\mu g/m^3$ - micrograms per cubic meter

Table 19. Soil Gas Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Parameter	DEQ RBCs for Soil Gas (a) Vapor Intrusion into Buildings (b) Urban Residential	Soil Gas Samples SG-1 SE Area 03/11/21	SG-2 E-SE Area 03/11/21	SG-3 E-Central Area 03/11/21	SG-4 NE Area 03/11/21	SG-5 NW Area 03/11/21	SG-6 NW-Central Area 03/11/21	SG-7 Central-N Area 03/12/21	SG-8 Central Area 03/12/21	SG-9 Central-S Area 03/12/21	SG-10 W-SW Area 03/12/21	SG-TP-1 SE Area 4/7/2021	SG-TP-6 SW Area 4/7/2021
VOCs (µg/m^3) USEPA Method TO-15/ TO-15 Modified													
Acetone	NE	**74**	**85**	**86**	**48**	**400**	**66**	**28**	**53**	**70**	**120**	**150**	**160**
Acetonitrile	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3U	5.3U
Acrolein	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11U	11U
Acrylonitrile	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10U	10U
Benzene	170	**15**	**17**	**5.7**	**13**	**9.3**	**4.4**	**3.7**	**4.8**	**5.6**	**6.0**	**14**	5.2U
Bromobenzene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl chloride	NE	7.8U	7.8U	7.8U	7.8U	7.8U	7.8U	7.8U	13U	7.8U	7.8U	11U	11U
Bromodichloromethane	36	3.4U	3.4U	3.4U	3.4U	3.4U	3.4U	3.4U	5.6U	3.4U	3.4U	5.2U	5.2U
Bromoform	1,200	5.2U	5.2U	5.2U	5.2U	5.2U	5.2U	5.2U	8.6U	5.2U	5.2U	5.3U	5.3U
Bromomethane	1,000	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	3.2U	1.9U	1.9U	5.2U	5.2U
1,3-Butadiene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
2-Butanone (MEK)	NE	**18**	**9.3**	**8.6**	**5.9**	**15**	**5.9**	**5.0**	7.4U	**5.8**	**13**	**39**	**45**
n-Butyl Acetate	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10U	10U
n-Butylbenzene	NE	8.2U	8.2U	8.2U	8.2U	8.2U	8.2U	8.2U	14U	8.2U	8.2U	NA	NA
sec-Butylbenzene	NE	8.2U	8.2U	8.2U	8.2U	8.2U	8.2U	8.2U	14U	8.2U	8.2U	NA	NA
tert-Butylbenzene	NE	8.2U	8.2U	8.2U	8.2U	8.2U	8.2U	8.2U	14U	8.2U	8.2U	NA	NA
Carbon disulfide	NE	**8.1**	**7.0**	6.2U	6.2U	6.2U	6.2U	6.2U	10U	6.2U	6.2U	10U	10U
Carbon tetrachloride	220	3.1U	3.1U	3.1U	3.1U	3.1U	3.1U	3.1U	5.3U	3.1U	3.1U	5.1U	5.1U
Chlorobenzene	10,000	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	3.8U	2.3U	2.3U	5.2U	5.2U
Chloroethane (ethyl chloride)	2,100,000	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	2.2U	1.3U	1.3U	5.2U	5.2U
Chloroform	58	2.4U	2.4U	2.4U	2.4U	2.4U	2.4U	2.4U	4.1U	**3.5**	2.4U	5.3U	5.3U
Chloromethane	19,000	1.0U	1.0U	1.0U	**1.3**	1.0U	1.0U	1.0U	1.7U	**4.5**	**1.1**	5.2U	5.2U
3-Chloro-1-propene (Allyl Chloride)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
2-Chlorotoluene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NE	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	4.1U	2.5U	2.5U	NA	NA
Cumene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**17**	**7.8**
Cyclohexane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10U	10U
Dibromochloromethane	49	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	7.1U	4.3U	4.3U	5.2U	5.2U
1,1-Difluroethane	NE	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	3.4U	2.0U	2.0U	NA	NA
1,2-Dibromo-3-chloropropane	NE	14U	14U	14U	14U	14U	14U	14U	24U	14U	14U	10U	10U
1,2-Dibromoethane (EDB)	2.2	**3.8U**	**3.8U**	**3.8U**	**3.8U**	**3.8U**	**3.8U**	**3.8U**	**6.4U**	**3.8U**	**3.8U**	**5.2U**	**5.2U**
Dibromoethane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	42,000	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	5.0U	3.0U	3.0U	5.3U	5.3U
1,3-Dichlorobenzene	NE	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	5.0U	3.0U	3.0U	5.3U	5.3U
1,4-Dichlorobenzene	120	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	5.0U	3.0U	3.0U	5.2U	5.2U
Dichlorodifluoromethane	NE	**2.8**	**2.8**	**2.7**	**2.7**	**2.8**	**2.9**	**2.8**	4.1U	**3.0**	**3.0**	5.2U	5.2U
1,1-Dichloroethane	830	5.4U	5.4U	5.4U	5.4U	5.4U	5.4U	5.4U	9.0U	5.4U	5.4U	5.4U	5.4U
1,2-dichloroethane (EDC)	51	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	3.4U	2.0U	2.0U	5.2U	5.2U
1,1-Dichloroethene	42,000	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	3.3U	2.0U	2.0U	5.2U	5.2U
cis-1,2-Dichloroethene	>Pv	**49**	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	**15**	**18**	**9.1**	5.2U	5.2U
trans-1,2-Dichloroethene	>Pv	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	3.3U	2.0U	2.0U	5.3U	5.3U
1,2-Dichloropropane	NE	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	3.9U	2.3U	2.3U	5.2U	5.2U
1,3-Dichloropropane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iso-Propylbenzene (cumene)	1,800,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 19. Soil Gas Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

	DEQ RBCs for Soil Gas (a)	Soil Gas Samples											
	Vapor Intrusion into Buildings (b)	SG-1	SG-2	SG-3	SG-4	SG-5	SG-6	SG-7	SG-8	SG-9	SG-10	SG-TP-1	SG-TP-6
		SE Area	E-SE Area	E-Central Area	NE Area	NW Area	NW-Central Area	Central-N Area	Central Area	Central-S Area	W-SW Area	SE Area	SW Area
Parameter	Urban Residential	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/11/21	03/12/21	03/12/21	03/12/21	03/12/21	4/7/2021	4/7/2021
VOCs (µg/m^3) **USEPA Method TO-15 and TO-15 Modified**													
4-Isopropyltoluene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NE	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	3.8U	2.3U	2.3U	5.3U	5.3U
trans-1,3-Dichloropropene	NE	4.5U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	7.6U	4.5U	4.5U	5.1U	5.1U
Dichlorotetrafluoroethane	NE	14U	14U	14U	14U	14U	14U	14U	23U	14U	14U	5.2U	5.2U
1,4-Dioxane	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
Ethanol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**58**	53U
Ethyl Acetate	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10U	10U
Ethylbenzene	530	2.2U	2.2U	**2.3**	2.2U	**3.3**	2.2U	2.2U	3.6U	2.2U	2.2U	5.2U	5.2U
4-Ethyltoluene	NE	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	4.1U	2.5U	2.5U	5.3U	5.3U
n-Heptane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
Hexachlorobutadiene	NE	16U	16U	16U	16U	16U	16U	16U	27U	16U	16U	5.2U	5.2U
n-Hexane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**8.0**	**17**
2-Hexanone	NE	6.1U	6.1U	6.1U	6.1U	6.1U	6.1U	6.1U	10U	6.1U	6.1U	10U	10U
Isopropanol	NE	12U	12U	**78**	**27**	12U	12U	12U	21U	12U	12U	NA	NA
d-Limonene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.9**	**6.4**
Methylene chloride	NE	17U	17U	17U	17U	17U	17U	17U	29U	17U	17U	5.2U	5.2U
Methyl Methacrylate	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10U	10U
4-Methyl-2-pentanone (MiBK)	NE	6.1U	6.1U	6.1U	6.1U	6.1U	6.1U	6.1U	10U	6.1U	6.1U	10U	10U
methyl t-butyl ether (MTBE)	5,100	7.2U	7.2U	7.2U	7.2U	7.2U	7.2U	7.2U	12U	7.2U	7.2U	5.2U	5.2U
Naphthalene	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
n-Octane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
n-Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3U	5.3U
alpha-Pinene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**100**	5.3U
2-Propanol **(Isopropyl Alcohol)**	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**17**	**12**
Propene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
n-Propylbenzene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2U	5.2U
Styrene	210,000	6.4U	6.4U	6.4U	6.4U	6.4U	6.4U	6.4U	11U	6.4U	6.4U	5.2U	5.2U
1,1,1,2-Tetrachloroethane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NE	6.9U	6.9U	6.9U	6.9U	6.9U	6.9U	6.9U	11U	6.9U	6.9U	5.3U	5.3U
Tetrachloroethene (PCE)	5,100	**4,800**	**4.6**	**13**	3.4U	**6.7**	**6.2**	**6.7**	**3,200**	**3,300**	**2,900**	5.2U	5.2U
Tetrahydrofuran (THF)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10U	10U
Toluene	1,000,000	**5.8**	**8.2**	**2.8**	**4.0**	**7.6**	**3.0**	**4.1**	**9.5**	**3.6**	**4.2**	**17**	**16**
1,2,3-Trichlorobenzene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NE	15U	15U	15U	15U	15U	15U	15U	25U	15U	15U	10U	10U
1,1,1-Trichloroethane	1,000,000	2.7U	2.7U	2.7U	2.7U	2.7U	2.7U	2.7U	4.6U	2.7U	2.7U	5.2U	5.2U
1,1,2-Trichloroethane	42	2.7U	2.7U	2.7U	2.7U	2.7U	2.7U	2.7U	4.6U	2.7U	2.7U	5.2U	5.2U
Trichloroethene (TCE)	200	**24**	4.5U	4.5U	4.5U	4.5U	4.5U	4.5U	**8.7**	**14**	**9.0**	5.1U	5.1U
Trichlorofluoromethane (Freon 11)	150,000	5.6U	2.7U	2.7U	2.7U	2.7U	2.7U	2.7U	9.4U	5.6U	5.6U	5.1U	5.1U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	11U	11U	11U	11U	11U	11U	11U	19U	11U	11U	5.3U	5.3U
1,2,3-Trichloropropane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	13,000	7.4U	7.4U	7.4U	7.4U	7.4U	7.4U	7.4U	12U	7.4U	7.4U	5.2U	5.2U
1,3,5-Trimethylbenzene	13,000	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	4.1U	2.5U	2.5U	5.3U	5.3U
Vinyl acetate	NE	7.0U	5.6U	5.6U	5.6U	5.6U	5.6U	5.6U	12U	7.0U	**9.7**	55U	55U
Vinyl chloride	41	1.3U	7.0U	7.0U	7.0U	7.0U	7.0U	7.0U	2.1U	1.3U	1.3U	5.3U	5.3U
o-Xylene	NE	2.2U	2.2U	2.2U	2.2U	**2.2**	2.2U	2.2U	3.6U	2.2U	2.2U	5.3U	5.3U
m,p-Xylene	NE	8.7U	8.7U	8.7U	8.7U	8.7U	8.7U	8.7U	15U	8.7U	8.7U	10U	10U
Xylenes	21,000	2.2U	2.2U	2.2U	2.2U	**2.2**	2.2U	2.2U	3.6U	2.2U	2.2U	5.3U	5.3U

See notes on next page.

Table 19. Soil Gas Samples Analytical Results - Volatile Organic Compounds (VOCs)
Phase II Environmental Site Assessment - 152 Sunshine Road, Roseburg, Oregon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Data Qualifiers:

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the May 2018 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable whenever volatile compounds are located beneath or within 10 feet of a commercial building, or beneath or within 50 feet of a residential building, or may be in such a location in the future.

Symbols/Acronyms:

DEQ - Department of Environmental Quality

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

$\mu g/m^3$ - micrograms per cubic meter