



Land use - Recreational

<ul> <li>SHARP first assessme</li> </ul>	ent	This section is blank if this is a SHARP first assessment				
SHARP Tool Version	v2024.02.20					
<ul> <li>SHARP rating</li> </ul>	Medium					
<ul> <li>SHARP date</li> </ul>	8/22/2024					
• EJFlagged?	✓					
• LD data confidence leve	el low					
<ul> <li>Cleanup milestone</li> </ul>	remedial inves	stigation				
<ul> <li>Assessor</li> </ul>	Cam Penner-A	\sh				
Assessment Media	Scores	Conf	Additional Factors		Ecology	Info
Indoor air	D4	high	multiple chemical types	✓	ERTS	n/a
Groundwater	C2	medium	risk to off-site people	$\Diamond$	CSID	9890
Surface water	D4	high	climate change impacts	✓	FSID	61559576
Sediment	B2	medium	plant/animal tissue data	$\Diamond$	VCP	n/a
Soil	<b>A1</b>	high			UST ID	200555
					LUST ID	2289
<b>Location and Land Use</b>	Info					
No Address on File , , Lew	is County,	Responsible unit – SWRO				

## Source/source area description

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The town of Kosmos was flooded with water in 1968 to create Riffe Lake. Currently, the surrounding land and water are used for recreational activities such as boating, camping and a hang-gliding landing area. In April 2019, the Department of Ecology (Ecology) was notified about seeps of Bunker C oil found on the eastern bank of Rainey Creek near Champion Haul Road southeast of Morton, Washington. The seeps are located at the site of a former Kosmos lumber mill near Riffe Lake within the boundaries of Tacoma Power's Cowlitz River Project. Possible sources for the seeps are from

## Local demographics comments

The Supplemental Demographic Index triggers an EJ flag with a 91 percentile in the state. The Environmental health index does not trigger with a rank of 2.

The hazardous substances from this site remained on the census tract where the release occurred.

#### Soil comments

Soil contaminants of concern are TPH-G, TPH-D, TPH-O, TPH-D, TPH-O, benzo(k)fluoranthene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Benzo(a)pyrene, cPAHs TEQ, fluoranthene, fluorene, pyrene, 1 Methylnaphthalene, Benzene, ethylbenzene, total xylenes, 1,2,4-Trimethylbenzene, 1,3,5 Trimethylbenzene, Lead, Mercury, Zinc. A majority of soil concentrations exceeding screening levels are located above 15 foot below ground surface.

### **Groundwater comments**

Groundwater contaminants of concern are TPH-G, TPH-D, TPH-D, TPH-D, TPH-O, benzo(k)fluoranthene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Benzo(a)pyrene, cPAHs TEQ, fluoranthene, fluorene, pyrene, 1 Methylnaphthalene, Benzene, ethylbenzene, total xylenes, 1,2,4-Trimethylbenzene, 1,3,5 Trimethylbenzene, Lead, Mercury, Zinc. Recent groundwater sampling results (mid-2024) illistrate that many soil





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Surface water contaminents of concern include copper, zinc, TPH-D, TPH-O. No contamined surface water has been observed at the site since the emergency remedial action. Future surface water samples will likely be screened against the larger GW and Soil CPOC list.

## Sediment comments

No sediment contamination has been observed since the emergency remedial action. Most of the previous sediment exceedences were removed during said remedial action.

## Indoor air comments

No buildings are on site so vaper instrusion is not a concern.

### Additional factors comments

no comments





#### Site narrative summary

The first seep was discovered in April 2019 of "black oily liquid" coming out of the hill slope and in Rainey Creek. Sampling of seep material indicated presence of Bunker C petroleum hydrocarbons. A later inspection and Rainey Creek water sample showed no evidence of Bunk C oil near the seep.

During remedial investigation additional sheen and seeps were discovered. A cap was designed and installed in December of 2019 to reduce petroleum discharge potential into Rainey Creek. The work outlined in the Remedial Investigation Work Plan was complete mid-2024. A draft Remedial Investigation report was submitted to Ecology in August of 2024. The current list of CPOCs in groundwater and soil are: TPH-G, TPH-D, TPH-D, TPH-D, TPH-O, benzo(k)fluoranthene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Benzo(a)pyrene, cPAHs TEQ, fluoranthene, pyrene, 1 Methylnaphthalene, Benzene, ethylbenzene, total xylenes, 1,2,4-Trimethylbenzene, 1,3,5 Trimethylbenzene, Lead, Mercury, Zinc. These CPOCs have not been finalized as of August 2024.

08/22/2024

**SHARP First Assessment** 

**Medium SHARP Rating** 

# SHARP Report — Part 2 of 2

Conceptual site model



