

SITE HAZARD ASSESSMENT  
WORKSHEET 1  
SUMMARY SCORE SHEET

Site Name/Location (Street, City, County, Section/Township/Range, TCP ID Number):

Pacific Pride Tanker Fire Chelan County  
Highway 2 MP 116 T23N/R19E/S13  
Monitor, WA 98836 Ecology Facility Site ID: 357

Latitude: 47° 28' 55"

Longitude: 120° 23' 52"

Site scored/ranked for February 2006 update

Site Description (Include management areas, substances of concern, and quantities):

A fuel spill occurred in the east bound lane of Highway 2, approximately 0.5 miles east of Monitor, Washington (mile post 115.7). The area surrounding the spill location is undeveloped highway right of way and forested river flood plain. A seasonal campground and RV park is located approximately one quarter mile to the north of the spill location. The spill site is located on the flood plain of the Wenatchee River. The Wenatchee River flows to the southeast and is located approximately 500 feet south of the spill site.

HISTORICAL BACKGROUND--INFO

The spill occurred as a result of an accident involving a tanker truck transporting approximately 10,000 gallons of unleaded gasoline on July 24, 1991. The truck was owned by Whitley Fuel Company of Okanogan, Washington. The tanker caught fire, which resulted in a large portion of the spilled fuel being burned. An Initial Investigation of the site was done on August 7, 1991, by Mark Peterschmidt of Ecology's Central Regional Office (CRO). A recommendation that the site receive a site hazard assessment (SHA) was made by Mr. Peterschmidt on May 13, 1992, which was followed by an Early Notice Letter dated May 18, 1992.

In November 1992, Whitley Fuel contracted DRT Environmental Consultants, Inc. to perform clean-up and remediation activities at the spill site. DRT supervised the excavation and removal of approximately 1300 cubic yards of soil from the accident location. The soil was stockpiled near the accident site, landfarmed to reduce hydrocarbon concentrations and eventually placed back into the excavation.

In October 1994, three monitoring wells were constructed to obtain samples of ground water and soil from the area where the landfarmed soil had been returned. Results for the soil samples from two of the three monitoring wells exceeded Model Toxics Control Act (MTCA) Method A cleanup levels for benzene, toluene, ethylbenzene and gasoline range hydrocarbons. The contaminated soils were found only at depths of 7.5 feet. Results for water samples from two of the three monitoring wells (MW-2 and MW-3) exceeded MTCA Method A cleanup levels for benzene, xylene and gasoline range hydrocarbons. (See Tables 1 and 2 of DRT Environmental Consultants report dated 1/30/1995--Source #1).

Ground water monitoring was conducted annually by DRT Environmental Consultants until 2002, when West Central Environmental Consultants was contracted to provide this service. Prior flooding by the Wenatchee River had destroyed two of the monitoring wells, leaving only MW-3 available for sampling. According to the most recent report dated November 1, 2004, for the ground water sample collected September 2, 2004, concentrations of benzene and diesel range hydrocarbons (TPH-D) exceeded MTCA Level A cleanup standards for groundwater (See Table 1 of West Central Environmental Consultants Report dated 11/1/04--Source #2).

**Special Considerations:**

Due to the significant contamination documented on-site being primarily subsurface, the surface water and air routes are not applicable for WARM scoring for this site.

**ROUTE SCORES:**

Surface Water/Human Health: NS

Surface Water/Environ: NS

Air/Human Health: NS

Air/Environmental: NS

Ground Water/Human Health: 38.3

**OVERALL RANK 3**

WORKSHEET 2 - ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE Not Scored

2. AIR ROUTE Not Scored

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Source: 1,2

Benzene, TPH-D, xylene, toluene, ethylbenzene, TPH-gasoline

Explain basis for choice of substance(s) to be used in scoring.

The most recent soil/groundwater analyses show only benzene and TPH-diesel were detected at significant concentrations.

List those management units to be considered for scoring: Source: 1,2

Contaminated subsurface soils and ground water.

Explain basis for choice of unit to be used in scoring.

Benzene and TPH-D contamination confirmed by most recent laboratory testing (November 2004)

WORKSHEET 6  
GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard		Acute Toxicity		Chronic Toxicity		Carcinogenicity		
	(ug/l)	Val.	(mg/kg-bw)	Val.	(mg/kg/day)	Val.	WOE	PF	Val.
1. Benzene	5	8		3		ND			5
2. TPH as diesel	160	4		5		3			ND

\*Potency Factor

Source: 1,2,5  
Highest Value: 8  
(Max.=10)

Final Toxicity Value: 8  
(Max.=12)

1.2 Mobility (Use numbers to refer to above listed substances)  
Cations/Anions: N/A

Or

Solubility(mg/l): 1,800 (1), 30 (2) Source: 1,2,5 Value: 3  
(Max.=3)

1.3 Substance Quantity: unknown, use default value = 1 Source: 1,6 Value: 1  
Explain basis: \_\_\_\_\_  
(Max.=10)

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 1,6 Value: 10  
Explain basis: Contaminated ground water, no cap  
(Max.=10)

2.2 Net Precipitation: 5.7 minus 3.0 = 2.7 inches Source: 7 Value: 1  
(Max.=5)

2.3 Subsurf. Hydraul. Conduct.: Silty sand Source: 1,3,6 Value: 3  
(Max.=4)

2.4 Vertical Depth to Ground Water: conf. release Source: 1,6 Value: 8  
(Max.=8)

PACIFIC PRIDE TANKER FIRE FINAL SHA REPORT September 15, 2005

GROUND WATER ROUTE

3.0 TARGETS

- 3.1 Ground Water Usage: public supply; no alternate sources Source: 8 Value: 9  
(Max.=10)
- 3.2 Distance to Nearest Drinking Water Well: ~1000 ft Source: 1,8 Value: 4  
(Max.=5)
- 3.3 Population Served within 2 Miles: \_\_\_\_\_ Source: 8 Value: 19  
95 private wells x 3 residents/well = 285 residents plus 56 residents (Max.=100)  
from public wells = 341 total  $\sqrt{341}=18.5=19$
- 3.4 Area Irrigated by (Ground water) Wells within 2 miles: \_\_\_\_\_ Source: 8 Value: 13  
 $0.75\sqrt{\text{no. acres}} = 0.75\sqrt{281} = (0.75)(16.8) = 12.6 = 13$   
(Max.=50)
- 4.0 RELEASE  
Explain basis for scoring a release to ground water: Source: 1,2,6 Value: 5  
Contaminants in ground water documented by analytical data  
(Max.=5)

SOURCES USED IN SCORING

1. DRS Environmental Consultants report dated January 30, 1995
2. West Central Environmental Consultants report dated November 1, 2004
3. Soil logs on file at Chelan-Douglas Health District.
4. Water well reports on file at Chelan-Douglas Health District
5. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January 1992.
6. Washington Department of Ecology, WARM Scoring Manual, April 1992.
7. Table identified as Table 27, supplied by Michael Spencer
8. Water Rights Application Tracking System (WRATS) printout for two-mile radius of site.

# Pacific Pride Spill Site 8/2/2005



view to west



view to east

# Pacific Pride Spill Site 8/2/2005



View to east from below road



view looking up to road

# Pacific Pride Spill 8/2/2005



view to west from below road