

**WORKSHEET 1
SUMMARY SCORE SHEET**

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

Simpsons Texaco
207 W. 1st Street
Cle Elum, Kittitas county, WA 98922
Latitude: 47° 11' 42"
Longitude: 120° 56' 30"
August 7, 2003

Section 26/20N/R15E
Ecology Facility Site ID: 92387155
Site scored/ranked for 09/02/03 update

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

The initial assessment, and ranking under the Washington Ranking Method, of this site, along with the surrounding vicinity, was by the Kittitas County Health Department in mid-1996, when the Washington State Department of Ecology (Ecology) became involved in an area-wide investigation of subsurface petroleum contamination in the city of Cle Elum. During trench excavations in 1991 for a telephone line installation across the street from a Texaco service station, Simpsons Texaco, a U.S. West crew encountered approximately one inch of free petroleum product. As there were several suspected contaminant sources under investigation at that time, for administrative purposes the site was listed, assessed, scored and ranked under the name Cle Elum Petroleum Contamination, and later changed to Cle Elum City of, with notes: Highway 903, site of interest extends approximately two miles.

The contaminants of concern at that time were total petroleum hydrocarbons (TPH-G) expressed both as gasoline (TPH-G) and diesel (TPH-D), and the area-wide "site" ranked a 3.

The owner of the Simpson Texaco service station, eventually identified as one of the suspected contaminant sources, originally signed up under Ecology's Voluntary Cleanup Program (VCP) for technical assistance in the remediation of his site property, which was entered onto Ecology's Confirmed and Suspected Contaminated Sites List on December 9, 2002, with confirmed contamination of both soil and groundwater indicated.

This listing followed receipt by Ecology of an Environmental Review of the Simpson Texaco property in October 2002 by Earth Consultants, which concluded that a review of all available Phase I and Phase II Environmental Site Assessment data and information indicated that the groundwater and subsurface soils at the subject site were still contaminated with petroleum products, primarily gasoline. Earlier sampling had documented concentrations of gasoline in groundwater samples as high as 76,000 ug/l (ppb). The Model Toxics Cleanup Act (MTCA) Method A cleanup level for gasoline in groundwater is 1000 ppb (assuming no benzene present) or 800 ppb, when benzene is present.

Mr. Simpson's VCP request was withdrawn on February 24, 2003. The site is currently owned by Ms. Shelley Winfrey, and a June 17, 2003 site drive-by noted it is now operated as a Shell service station, with a Subway restaurant attached. The buildings on the site area totally surrounded by concrete and/or asphalt paving.

Special Considerations (Include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) overriding a decision of no further action for the site):

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, thus only the ground water route will be scored.

ROUTE SCORES:

Surface Water/Human Health:	<u>NS</u> *	Surface Water/Environ.:	<u>NS</u>
Air/Human Health:	<u>NS</u>	Air/Environmental:	<u>NS</u>
Ground Water/Human Health:	<u>23.7</u>		

OVERALL RANK: 5

*Not scored

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE - Not Applicable/Not Scored.

2. AIR ROUTE - Not Applicable/Not Scored.

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Source: 1,2,4

Gasoline (TPH-Gas)

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

Analytical results from groundwater samples showed concentrations greater than the Method A MTCA cleanup level for gasoline.

List those management units to be considered for scoring: Source: 1,2,4

Contaminated subsurface soils/groundwater.

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

Spill/discharge caused contaminated subsurface soils/groundwater.

WORKSHEET 3 (If Required)
 SUBSTANCE CHARACTERISTICS WORKSHEET
 FOR MULTIPLE UNIT/SUBSTANCE SITES
Combination 1 Combination 2 Combination 3

Unit: Section Not Applicable.

1. SURFACE WATER ROUTE

Substance(s):
 Human Toxicity Value:
 Environ. Toxicity Value:
 Containment Value:
 Rationale:

 Surface Water Human
 Subscore: (+3)(+1)= (+3)(+1)= (+3)(+1)=
 () () = ____ () () = ____ () () = ____
 Surface Water Environ.
 Subscore: (+3)(+1)= (+3)(+1)= (+3)(+1)=
 () () = ____ () () = ____ () () = ____

2. AIR ROUTE

Substance(s):
 Human Toxicity/Mobility
 Value:
 Environ. Toxicity/
 Mobility Value:
 Containment Value:
 Rationale:

 Air Human Subscore: (+3)(+1)= (+3)(+1)= (+3)(+1)=
 () () = ____ () () = ____ () () = ____
 Air Environ. Subscore: (+3)(+1)= (+3)(+1)= (+3)(+1)=
 () () = ____ () () = ____ () () = ____

3. GROUND WATER ROUTE

Substance(s):
 Human Toxicity Value:
 Containment Value:
 Rationale:

 Ground Water Subscore: (+3)(+1)= (+3)(+1)= (+3)(+1)=
 () () = ____ () () = ____ () () = ____

Based on their respective highest scoring toxicity/containment combinations, the following management units will be used for route scoring:

- Surface Water -
- Air -
- Ground Water -

**WORKSHEET 4
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. TPH-gasoline	5	8	3306	3	X	-	A	.029	5

Potency Factor

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

+2 Bonus Points? No
Final Toxicity Value: 8
(max. +12)

1.2 Mobility (Use numbers to refer to above listed substances)

Cations/Anions: _____ Source: 2, 5 Value: 3
(Max. =3)

Or

Solubility(mg/l): 1 $1.8E+03 = 3$

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

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 1-4, 6 Value: 5
Explain basis: Contam. soil capped, score as landfill:
No liner (3); Maintained cover with no ponding (0); No
leachate collection system (2) = 5 (Max. =10)

2.2 Net Precipitation: Nov-April= 28.3" - 2.3" = 26.0" Source: 7 Value: 1
(Max. =5)

2.3 Subsurface Hydraulic Conduct.: Sands/gravels/silts Source: 1-3 Value: 3
(Max. =4)

2.4 Vertical Depth to Ground Water: Obs. Release = 0' Source: 1-3 Value: 8
(Max. =8)

WORKSHEET 6 (CONTINUED)
GROUND WATER ROUTE

3.0 TARGETS

- 3.1 Ground Water Usage: Unthr. Alts available Source: 8,9 Value: 4
(Max.=10)
- 3.2 Dist. to Nearest Drinking Water Well: 600 - 1300' Source: 8,9 Value: 4
(Max.=5)
- 3.3 Population Served within 2 Miles: Pop. (1865)^{-1/2} = 43 Source: 8,9 Value: 43
(Max.=100)
- 3.4 Area Irrigated by (Groundwater) Wells
within 2 miles: _____ Source: 8,9 Value: 0
None doc. (Max.=50)
- 4.0 RELEASE
Explain basis for scoring a release to ground water: Documented by analytical data Source: 1,2 Value: 5
(Max.=5)

SOURCES USED IN SCORING

1. Washington Ranking Method scoring package for the site: Cle Elum City of, prepared for Ecology by Kittitas County Health Department, June 1996.
2. Environmental Review of Simpson Texaco, 207 West 1st Street, Cle Elum, WA, Earth Consultants, October 18, 2002.
3. E-mail from Christina Zerby to Michael Spencer, November 7, 2002.
4. Site Drive-byes, June 16 and 20, 2003.
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. See attached table identified as Reference 7.
8. Water Rights Application System (WRATS) printout for two-mile radius of site.
9. WA Dept. of Health S.A.D.I.E. PWS Information for Cle Elum Water Department.