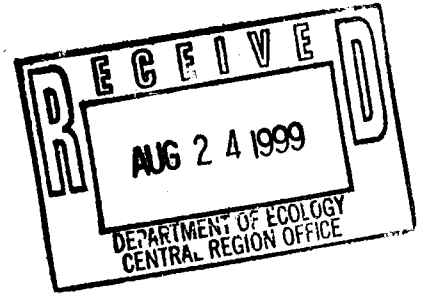


**WORKSHEET 1
SUMMARY SCORE SHEET**

Note: This document currently has no provision for sediment route scoring.

Site Name/Location (City, County, Section/Township/Range):

Medic I
111 South 3rd Avenue
Yakima, WA 98902



Parcel number: R= 18 T= 13 S= 24 - 41407

Date Scored: August 23, 1999

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

An automobile dealership was built on this site approximately 40 years ago. It is not known what was on this site prior to that. Medic I, an ambulance service, operated out of this site in recent years. A former service station is across the alley to the east. Picatti Brothers, an electrical supply company, is to the north. To the west is a boat sales yard across Third Avenue. To the south is an open lot with an espresso stand on it across Walnut Avenue.

In 1994 PLSA Engineering & Surveying was hired to decommission two unused steel underground storage tanks from this site. During the tank removal it was discovered that an additional waste oil tank was present in the gasoline tank basin.¹ According to the clean up report, the tanks were in good condition and did not appear to have leaked. There was no visual or olfactory evidence of petroleum contamination in the sand tank bedding in any location within the tank basins. Ground water was not encountered during the tank removals.

Four out of nine confirmatory samples taken from the bottom and sides of the excavation showed heavy oil contamination ranging from 370 ppm to 2700 ppm. None of the samples showed any diesel or gasoline range hydrocarbons that would be expected due to the natural breakdown of the oil. It is important to note that the site was paved with asphalt prior to the tank removals. This asphalt was broken during the excavation.

It is the belief of the engineer in charge of the tank removal that the oil contamination found in some of the samples is due to asphalt particles that fell into the excavation during tank removal. According to their report: "The tanks did not appear to have been leaking and were in good condition for their age. All of the tanks were encrusted with some rust, but did not appear to have leaked. There was no visual or olfactory evidence of petroleum contamination in the sand tank bedding in any location within the tank basins. Asphalt paving covering the tank basins was broken during the course of excavation and tank removal." No ground water was contacted during the removal of the tanks.

PATHWAY SCORES:

Surface Water/Human Health: N/A ; Surface Water/Environ.: N/A ;

Air/Human Health: N/A ; Air/Environmental: N/A ;

Ground Water/Human Health: 6.94

OVERALL RANK: 5

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

Not Applicable/Not Scored

2. AIR ROUTE

Not Applicable/Not Scored

3. GROUND WATER ROUTE

List substances to be considered for scoring:

Heavy Oil

Source:

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

It is the only contaminate found at the site that is above MTCA levels.

List management units to be considered in scoring:

Spill

Source:

Explain basis for choice of unit used in scoring.

**WORKSHEET 4
SURFACE WATER ROUTE**

Not Applicable/Not Scored

**WORKSHEET 5
AIR ROUTE**

Not Applicable/Not Scored

**WORKSHEET 6
GROUND WATER ROUTE**

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

<u>Substance</u>	<u>Drinking Water Standard (ug/l) Val.</u>	<u>Acute Toxicity (mg/kg-bw) Val.</u>	<u>Chronic Toxicity (mg/kg/day) Val.</u>	<u>Carcino- genicity WOE PF* Val.</u>
1. <i>heavy oil</i>	- -	- -	.03 1	- -

*Potency Factor

Source:	1, 2, 3, 4
Highest Value:	1
+2 Bonus Points?	0
Final Toxicity Value:	1

**1.2 Mobility (Use numbers to refer to above listed substances)
Cations/Anions**

Source Value:

OR

Solubility(mg/l) <10

Source: 2, 4 Value: 0

1.3 Substance Quantity 15 cubic yards
Explain basis: This estimate is based on the extent of contamination
inferred from sampling assuming a 3' depth below
the bottom of the excavation.

Source: 3, 4 Value: 2

2.0 MIGRATION POTENTIAL

2.1 Containment Contaminated area has been capped
Explain basis: The area of contamination has new asphalt on top of it.

Source: 4, 5 Value: 5

2.2 Net Precipitation: 1.7 inches

Source: 6 Value: 1

2.3 Subsurface Hydraulic Conductivity: >10⁻³

Source: 3, 4 Value: 4

2.4 Vertical Depth to Ground Water: 0 to 25 feet Source: 3, 4 Value: 8

3.0 TARGETS

3.1 Ground Water Usage: Public Supply with alternate sources available with minimum hook up requirements Source: 4, 5 Value: 4

3.2 Distance to Nearest Drinking Water Well: >5,000 to 10,000 feet Source: 4, 5 Value: 1

3.3 Population Served within 2 Miles: $(1100)^2 = 33.16$ Source: 7 Value: 34

3.4 Area Irrigated by (Groundwater) Wells within 2 miles: $.75(2642.78)^2 = 38.55$ Source: 7 Value: 39

4.0 RELEASE

Explain basis for scoring a release to ground water: No release Source: 3, 4, 5 Value: 0

SOURCES USED IN SCORING

1. *Rule Modification Document, December 9, 1999*
2. *Toxicology Database for Use in Washington Ranking Method Scoring, January 1992*
3. *Site Assessment and Site Closure Engineering Report on Underground Storage Tank Removal at Medic 1, November 1994.*
4. *Washington Ranking Method Scoring Manual, April 1990*
5. *Site Visit by Yakima Health District Personnel*
6. *Washington Climate for Grant, Klickitat, Kittitas, and Yakima Counties, May 1979*
7. *Water Rights Application Tracking System*