

FSID 547

CSID 1940

NFA

**WORKSHEET 1  
SUMMARY SCORE SHEET**

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

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

Elliott Tire Center  
1 East Lincoln Avenue  
Yakima, WA 98901

Parcel number: R= 19 T= 13 S= 19 -22406

Site scored/ranked for the February 2000 update

Latitude: N 46° 36' 50"  
Longitude: W 120° 31' 09"

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

This site covers approximately one-half block on the north-east corner of the intersection of Lincoln Avenue and Front Street in Yakima. The site is currently being used as a retail tire center and has been such since 1968. There was a service station at the site prior to its current use. To the north of the site is a warehouse occupied by Irwin Research. To the east of the site is a city fire station. To the south of the site is a parking lot. To the west of the site is a railroad yard. Currently, the entire lot is paved and all boreholes through the concrete floor in the service bays are sealed.

Phase I and Phase II environmental investigations were conducted by Environmental Associates, Inc. in 1994 and 1995. As a result of those investigations PCE was found in a dry well located on the property. Petroleum hydrocarbons, including gasoline and diesel were found above MTCA method A levels in addition to PCE in soil and ground water samples. During the Phase III environmental investigation conducted by Maxim Technologies, Inc., soil testing in the area around the dry wells showed no PCE in the soils beneath them. However, PCE was detected in small quantities beneath the concrete floor of the shop area. Further testing showed this PCE contamination to be limited to the top 2 feet of soil and to be associated with seams or joints in the concrete floor. All PCE contaminated soil was subsequently removed from beneath the floor and follow up testing confirmed this.

Two 1,000 gallon underground gasoline storage tanks were found at the site. These tanks had been filled with sand and abandoned in place. In August of 1995, these tanks were removed and 180 tons of petroleum contaminated soil was removed from the site. The soil was replaced with clean fill.

During the Phase II investigation, three ground water monitoring wells were installed at this site. Detectable levels of PCE of 1.0 ppb were reported in water samples from the up-gradient and down-gradient wells, but only during water table lows during the winter.

Because all PCE contaminated soils were removed from the site and the monitoring well test data shows equivalent levels of PCE in both up-gradient and down-gradient wells, PCE will not be considered as a contaminant in this scoring.

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) over-riding a decision of no further action for the site):

**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:   35.17   .

**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:

Diesel, gasoline

Source: 1

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

These are the only substances left at the site above MTCA method A levels that can be scored. Some heavy oil is at the site, but it does not have a listing in the Toxicology Data Base.

List management units to be considered in scoring:

Contaminated Soil and Groundwater

Source: 1

Explain basis for choice of unit used in scoring.

Lab testing shows diesel contamination remaining in the soil and gasoline contamination remaining in the ground water above MTCA method A levels.

**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>Carcinogenicity WOE PF* Val.</u>	
1.	<i>gasoline</i>	5	8	3,306	3	-	-	.029	5
2.	<i>diesel</i>	20	6	490	5	.004	5	-	-

\*Potency Factor

Source:	2, 3
Highest Value:	8
+2 Bonus Points?	2
<b>Final Toxicity Value:</b>	<b>10</b>

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

Source                      Value:

OR

Solubility(mg/l)

Source: 3, 2              Value: 3

**1.3 Substance Quantity              <10 cu. Yd.**

Source: 1, 3              Value: 1

Explain basis: All known gasoline contaminated soils have been removed from the site. There is less than 10 cubic yards of diesel contaminated soil at the site.

**2.0 MIGRATION POTENTIAL**

**2.1 Containment**

Source: 3, 4              Value: 6

Explain basis: Subsurface spill which is now covered (capped) with asphalt and concrete in good condition.

**2.2 Net Precipitation:**

1.2 inches

Source: 5              Value: 1

**2.3 Subsurface Hydraulic Conductivity:**

>1E+03

Source: 1              Value: 4

2.4 Vertical Depth to Ground Water: >25 feet Source: 1 Value: 8

3.0 **TARGETS**

3.1 Ground Water Usage: Public supply with alternate source readily available Source: 3, 4 Value: 4

3.2 Distance to Nearest Drinking Water Well: 4,000 feet Source: 4 Value: 2

3.3 Population Served within 2 Miles:  $(1,747)^2 = 42$  Source: 6, 4 Value: 42

3.4 Area Irrigated by (Groundwater) Wells within 2 miles:  $.75(1,968)^2 = 33$  Source: 7 Value: 33

4.0 **RELEASE**

Explain basis for scoring a release to ground water: Source: 1 Value: 5  
Laboratory tests show 2,500 ppb of gasoline in the ground water.

## SOURCES USED IN SCORING

1. *Independent Remedial Action Program Report of Phase III Investigation and Remediation, Elliott (Goodyear) Tire Center, April 1996.*
2. *Toxicology Database for Use in Washington Ranking Method Scoring, 1992.*
3. *Washington Ranking Method Scoring Manual, 1992.*
4. *Site Visit by Yakima Health District Personnel, September 1995.*
5. *Washington Climate For These Counties: Grant, Kittitas, Klickitat, and Yakima, 1979.*
6. *1990 Census Information.*
7. *WDOE Water Rights Information System.*