

**WORKSHEET 1  
SUMMARY SCORE SHEET**



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

Fire Station #1  
401 North Front Street  
Yakima, WA 98901

Parcel number: R = 18 T = 13 S = 13 - 44424

Site scored/ranked for the August 2000 update

Latitude: N 46.607246°  
Longitude: W 120.508629°

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

This site is currently a City of Yakima Fire Station and has been such at least since the mid 1970s. It is not known what the site was used for prior to that. In November 1997 Cecon Corporation removed two underground storage tanks from this site. One had been used for diesel fuel and the other for unleaded gasoline. Testing for TPH and BTEX in the bottom and side walls of the excavations showed no contamination above MTCA method A levels. Testing beneath the fuel dispensers for BTEX and TPH showed TPH at 20,000 mg/kg. This contamination could not be removed due to proximity to the building foundation. No groundwater was encountered and the excavations were filled and paved over.

To the north of the site is a motel. To the east of the site is retail/commercial. To the south of the site is automobile service. To the west of the site is apple bin storage and then warehouses.

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: 28.1.

**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

Source: 1

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

Diesel was the only substance found at the site above MTCA method A levels.

List management units to be considered in scoring:

Spill to soil

Source: 1

Explain basis for choice of unit used in scoring.

The fuel dispensers had leaked diesel into the soil adjacent to the building. The diesel could not be cleaned up due to the proximity of the building foundation

**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>diesel</i>	20 6	490 5	.004 5	-

Source: 1  
 Highest Value: 6  
 +2 Bonus Points? 0  
**Final Toxicity Value: 6**

\*Potency Factor

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

Source      **Value:**

OR

Solubility(mg/l) 3.0 E +1

Source: 5      **Value: 1**

1.3 Substance Quantity      unknown  
Explain basis:

Source: 1, 4      **Value: 1**

**2.0 MIGRATION POTENTIAL**

2.1 Containment  
Explain basis:

The Washington Ranking Method Scoring Manual recommends that contaminated areas that have been capped be scored as a landfill with a cover and no liner or leachate collection system. This site is paved with asphalt in fair condition.

Source: 1      **Value: 9**

2.2 Net Precipitation:

1.7 inches

Source: 6      **Value: 1**

2.3 Subsurface Hydraulic Conductivity:

>10<sup>-3</sup>

Source: 7      **Value: 4**

2.4 Vertical Depth to Ground Water:

<25 feet

Source: 8      **Value: 8**

### 3.0 TARGETS

3.1	Ground Water Usage: Public supply, but alternative sources available with minimum hookup requirements	Source: 3	Value: 4
3.2	Distance to Nearest Drinking Water Well: 3,000 feet	Source: 3,4	Value: 2
3.3	Population Served within 2 Miles: $(2000)^2 = 44.72$	Source: 2	Value: 45
3.4	Area Irrigated by (Groundwater) Wells within 2 miles: $.75(2108)^2 = 34.4$	Source: 9	Value: 35

### 4.0 RELEASE

Explain basis for scoring a release to ground water: This was a subsurface spill.	Source: 1	Value: 0
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### SOURCES USED IN SCORING

1. *Site Assessment Summary Report For UST Removals at Yakima Fire Station #1, Yakima, Washington, December 1997*
2. *1990 Census Data*
3. *Site Visit by Yakima Health District Personnel*
4. *Washington Ranking Method Scoring Manual, April 1990*
5. *Toxicology Database for Use in Washington Ranking Method Scoring, January 1992*
6. *Washington Climate for Grant, Kittitas, Klickitat, and Yakima Counties, May 1979*
7. *Soil Conservation Service Soil Survey of Yakima County Area, 1985*
8. *Ground Water Monitoring Wells 1 block south of site (Elliot Tire Center)*
9. *Water Rights Application Tracking System.*