CSID 1422

**WORKSHEET 1**
**SUMMARY SCORE SHEET**

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

Site Name/Location (Street, City, County, Section/Township/Range).
**VESTAL JOBBER MFG. CO. NW1/4 of Sec 13, Tnshp 25, Rng 43.**
**N. 902 DYER RD.**
**SPOKANE, WASH. 99212**

Site Description (Include management areas, substances of concern, and quantities):
**Vestal Jobbers Mfg. Co. is a custom manufacturing operation established in 1988 and is comprised of a milling, fabrication, and general machine shop. Information from Ecology files stated that an underground storage tank (UST) was discovered about July 1991 by the current property owner (Vestal). Subsequent sampling, UST decommissioning, and site assessment revealed that the UST had leaked into surrounding soils. Contaminants of diesel and chromium exceeding Model Toxics Control Act standards were confirmed in these soils.**

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):
**To date the Washington Department of Ecology (Ecology) has not received any information indicating that the contaminated soils have been remediated to acceptable levels. A phone conversation with Mr. Rick Vestal on December 7, 1995 revealed that the area of tank removal was lined with plastic and filled with soil. Contaminants were discovered during UST decommissioning and are located in subsurface soils. Site hazard assessment concludes that the contaminants do not present a hazard by airborne or surface water pathways.**

**ROUTE SCORES:**

Surface Water/Human Health: _NA__ Surface Water/Environ.: _NA____

Air/Human Health: _NA____ Air/Environmental: _NA____

Ground Water/Human Health: _49.1__

**OVERALL RANK: __3___**

**Rev. 3/10/93**

**WORKSHEET 2**
**ROUTE DOCUMENTATION**

**1. SURFACE WATER ROUTE** **Not Applicable.**

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

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

List those management units to be considered for scoring: Source:

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

**2. AIR ROUTE** **Not Applicable.**

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

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

List those management units to be considered for scoring: Source:

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

WORKSHEET 2 (CONTINUED)
ROUTE DOCUMENTATION

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Source: 1
**TPH-DIESEL**
**CHROMIUM**

Explain basis for choice of substance(s) to be used in scoring.
**Contaminants exceed MTCA standard in soil.**
**TPH-Diesel levels were reported up to 21,800 ppm exceeding the 200 ppm MTCA standard.**
**Chromium levels were reported up to 210 ppm exceeding the 100 ppm MTCA standard.**

List those management units to be considered for scoring: Source: 1
**Contaminated subsurface soil/ ground water only.**

Explain basis for choice of unit to be used in scoring.
**Contaminants were discovered during UST decommissioning and are located in subsurface soils. Site hazard assessment concludes that the contaminants do not present a hazard by airborne or surface water pathways.**

**WORKSHEET 6**
**GROUND WATER ROUTE**

## 1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

| Substance | Drinking Water Standard (ug/l) | Val. | Acute Toxicity (mg/kg-bw) | Val. | Chronic Toxicity (mg/kg/day) | Val. | Carcinogenicity WOE | PF* | Val. |
|---|---|---|---|---|---|---|---|---|---|
| 1. TPH-DIESEL | 20 | 6 | 490 | 5 | 0.004 | 3 | ** | ** | ** |
| 2. Chromium | 100 | 6 | ** | ** | 1.0 | 1 | ** | ** | ** |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |
| 6. | | | | | | | | | |

*Potency Factor

Source: 1
Highest Value: 6
+2 Bonus Points? 2
**Final Toxicity Value: 8**

1.2 Mobility (Use numbers to refer to above listed substances)
Cations/Anions: 2. = >1 K = 1 Source: 2 **Value: 1**

OR
Solubility(mg/l): 1. = 1sol.

1.3 Substance Quantity Source: 1 & 3 **Value: 5**
Explain basis: **Est. 61 cu/yd;** Total quantity of affected soil is unknown extent of contamination is not known Estimations of volume derived from site assessment report and table GW-7 WARM Scoring Manual.

## 2.0 MIGRATION POTENTIAL

2.1 Containment Source: 3 **Value: 10**
Explain basis: Spills Discharges and Contaminated soils

2.2 Net Precipitation: 7.2 inches Source: 4 **Value: 1**

2.3 Subsurface Hydraulic Conductivity: > 10-5 to 10-3 Source: 5 **Value: 3**

2.4 Vertical Depth to Ground Water: 42 feet Source: 1 & 6 **Value: 6**

**WORKSHEET 6 (CONTINUED)**
**GROUND WATER ROUTE**

**3.0 TARGETS**

3.1 Ground Water Usage: FED DESIGNATED AQUIFER Source: 7 **Value:** 10
(Max.=10)

3.2 Distance to Nearest Drinking Water Well: <600 ft Source: 1 & 6 **Value:** 5
(Max.=5)

3.3 Population Served within 2 Miles: $\sqrt{pop.} = \sqrt{40,250} = 200$ Source: 6 & 8 **Value:** 100
(Max.=100)

3.4 Area Irrigated by (Groundwater) Wells within 2 miles: $0.75\sqrt{no.acres} = 4900$ $0.75\sqrt{\quad} = 0.75\ (70) = 52$ Source: 9 **Value:** 50
(Max.=50)

**4.0 RELEASE**

Explain basis for scoring a release to ground water: NONE Source: 1 **Value:** 0
(Max.=5)

**SOURCES USED IN SCORING**


1. SITE ASSESSMENT REPORT VESTAL JOBBER MFG CO. BLUE RIDGE ASSOCIATES, INC. AUGUST 17, 1993
2. TOXICOLOGY DATABASE WARM
3. WARM SCORING MANUAL
4. WASHINGTON CLIMATE, SPOKANE CO. WSU DEPT. OF AGRICULTURE
5. SOIL SURVEY OF SPOKANE CO. WASHINGTON, USDA SOIL CONSERVATION SVC.
6. WASHINGTON DEPT. OF ECOLOGY, WELL LOGS.
7. AQUIFER SENSITIVE AREA OVERLAY ZONE MAP, SPOKANE CO. WASHINGTON
8. WASHINGTON DEPT. OF HEALTH DRINKING WATER INFORMATION NETWORK
9. WRIS WASHINGTON DEPARTMENT OF ECOLOGY