CSID 510

WORKSHEET 1 SUMMARY SCORE SHEET

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

FSID 71921191

American Armored Pawn Shop 16413 E. Sprague Ave. Veradale, WA 99037 SW1/4 SE1/4 Sec. 13, Township 25N, Range 44EWM. Latitude 47° 39' 26" Longitude 117° 11' 03"

Site scored/ranked for August 29, 2000 Update

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

The American Armored Pawn Shop, parcel number 45134.1443, is a single story structure located on flat terrain. The lot size is 14422 square feet with minimal paving and is primarily gravel and grass surface. In October of 1998 an estimated release of over 550 gallons of #2 fuel oil occurred below an aboveground heating oil tank. The spill was located adjacent to the east wall of the building. Due to the porosity and layered composition of site soils the majority of the spill migrated downward and laterally. American Armored Pawn initiated a remedial response for cleanup that included removal of near surface petroleum contaminated soil (PCS) and subsurface investigation of the extent of contamination.

Excavation of PCS was attempted adjacent to the building until risk of structural damage halted full remediation. Two reports addressing remedial investigation and cleanup projections (see Sources Used In Scoring 1a, 1b.) disclose PCS has migrated under the pawnshop building and an estimated 170 yd³ of PCS impacted soil remain.

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):

A No Further Action cannot be assigned due to the remaining PCS disclosed under the building. Site will be scored on the groundwater-human health pathway. Contamination exists in subsurface soils only.

ROUTE SCORES:

 Surface Water/Human Health:
 NA
 Surface Water/Environ:
 NA

 Air/Human Health:
 NA
 Air/Environmental:
 NA

 Ground Water/Human Health:
 31.4

OVERALL RANK: <u>5</u>

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WORKSHEET 2 ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE Not Applicable.

2. AIR ROUTE Not Applicable.

3. GROUND WATER ROUTE

List those substances to be <u>considered</u> for scoring:

Source: 1a.

TPH-Diesel (#2 fuel oil)

Explain basis for choice of substance(s) to be <u>used</u> in scoring.

Laboratory analysis of petroleum-contaminated soil displayed remaining TPH-Diesel range values up to 8,183 ppm.

List those management units to be <u>considered</u> for scoring: Source: <u>1a; 1b.</u>

Contaminated subsurface soils

Explain basis for choice of unit to be <u>used</u> in scoring.

Laboratory analysis of soil samples from excavation wall samples indicates the presence of diesel range hydrocarbons in excess of MTCA standards.

WORKSHEET 6 GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Drinking Water Acute Chronic Carcino-
Standard Toxicity Toxicity genicity <u>Substance (ug/l) Val. (mg/kg-bw) Val. (mg/kg/day) Val. WOE PF[*] Val. 1. TPH-D 20 6 490 5 0.004 3 ** ND 2. 3.</u>
*Potency Factor Source: <u>1a.</u> +2 Bonus Points? <u>0</u> Final Toxicity Value: 6
1.2 Mobility (Use numbers to refer to above listed substances) Cations/Anions: <u>1= ; 2= ; 3= ; 4= ; 5= ;</u> OR Solubility(mg/l): <u>1=3.0e+01 (1)</u>
1.3 Substance Quantity: <u>170yd³ Table GW-7A</u> Source: <u>1a, 3</u> Value: <u>3</u> Explain basis: <u>Estimate of remaining PCS minus the 14.7 tons of remediated soil is based</u> on average projection values from remedial report. Approximately 170 yd ³ estimate.
2.0 MIGRATION POTENTIAL
2.1 Containment Source: <u>1a, 3</u> Value: <u>10</u> Explain basis: <u>Spills, discharges, and contaminated soil</u>
2.2 Net Precipitation: 7.2 inches Source: 4 Value: 1
2.3 Subsurface Hydraulic Conductivity: <u>Garrison v-stony loam</u> Source: <u>5</u> Value: <u>4</u>
2.4 Vertical Depth to Ground Water: <u>80 feet</u> Source: Value: <u>4</u>

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3.0 TARGETS

3.1 Ground Water Usage: Fed. Sole source aquifer

3.2 Distance to Nearest Drinking Water Well: 7900 ft

<u>3.3</u> Population Served within 2 Miles: $\sqrt{pop. 12,300}$ (Default value 100)

3.4 Area Irrigated by (Groundwater) Wells within 2 miles: $0.75 \sqrt{n0. acres} = \sqrt{86=9.27 \ 0.75 \times 9.27 = 6.9}$

4.0 RELEASE

Explain basis for scoring a release to ground water: No Release to groundwater evident. Source: 7 Value: 10

(Max.=10)

Source: 6, 8 Value: 1

(Max.=5)

Source: 8 Value: 100

(Max.=100)

Source: 9 Value: 7

(Max.=50)

Source: <u>1a, 1b.</u> Value: 0

(Max.=5)

SOURCES USED IN SCORING

- Initial Remediation and Soil Boring Investigation Fuel Oil Aboveground Storage Tank Spill American Armored Pawn Shop Veradale, Washington January 29, 1999 Fulcrum Environmental Consulting, Inc. Project # 98895
- Financial Impact Projections Related To Subsurface Petroleum Hydrocarbon Release American Armored Pawn Shop Veradale, Washington May 25, 1999 Fulcrum Environmental Consulting, Inc. Project # 98895-2
- 2. Toxicology Database Washington Ranking Method Scoring (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 Department of Ecology, Well Logs.
- 7. Aquifer Sensitive Area overlay Zone Map, Spokane Co. Washington
- 8. Washington Dept. of Health Drinking Water Information Network
- 9. Water Resources Information System Washington Dept. of Ecology