

CSID 2669

WORKSHEET 1
SUMMARY SCORE SHEET

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

UCO Corporation
9225 151st Avenue Northeast
Redmond, WA 98052
King County
T-25N, R-5E, Sec-02
TCP ID: N-17-5311-000
Longitude: 122* 8' 22.2"
Latitude: 47* 41' 2.46"
Site scored for August 31, 1999 update

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

UCO Corporation is a manufacturer of outdoor, recreational products made from aluminum. The company is located in the city of Redmond in a commercial and/or manufacturing area. The site covers approximately 0.43 acres with 151st Avenue Northeast as its eastern border. Other commercial businesses encompass the north, south, east and west boundaries of the site. The surrounding area is served by municipal water and sewer systems. Currently, there is a building consisting of office space, storage facility, and manufacturing plant. Within the manufacturing plant, there are several machines used for processing that are powered by pressurized hydraulic fluid. Paved parking surrounds the building with the exception of the northern side which is a gravel-covered side yard.

During January of 1994, the Metro response team received a complaint from the Redmond Fire Department regarding contamination of the site with petroleum products and metal shavings. Upon the initial complaint investigation, the Metro team discovered an 8-foot by 12-foot area that appeared to be contaminated with a petroleum product and some metal shavings amongst the stained area. The location of the stained area is in a planting strip northwest of the UCO building behind a paved parking area. Indications from the property owner suggest that former employees in the past may have disposed hydraulic fluid and aluminum shavings in the contaminated area.

Based on the findings of the initial investigation performed by the Metro response team, the Department of Ecology (Ecology) listed the UCO Corporation on Ecology's Site Information Systems (SIS) list on April 26, 1996.

Carsten Thomsen and Yolanda King of the Seattle-King County Department of Public Health (SKCDPH) performed a site hazard assessment (SHA) visit on February 24, 1999. Greg Draper, owner of UCO Corporation, conducted a tour and gave a historical background of the site. Presence of aluminum shavings were detected at time of the site visit, however, no visual evidence of other contaminants were present. Due to the site history and information obtained during the initial investigation and the SHA interview, the SKCDPH deemed it necessary to test for potential contaminants.

On March 12, 1999, Carsten Thomsen and Yolanda King of the SKCDPH sampled two different locations within the area of the gravel-covered side yard. Two soil samples were analyzed for Total Petroleum Hydrocarbons Diesel Extended (TPH-Dx), Total Petroleum Hydrocarbons Gas (TPH-Gas), and total metals. Sample one was taken at a depth of eight inches and sample two was taken at a depth of ten inches. Both soil samples had non-detectable levels TPH-Diesel and TPH-Gas, and trace amounts of chromium and lead which were below the Model Toxics Control Act (MTCA) Method A

clean-up levels. However, sample one had 3200 ppm of heavy oil which is above the MTCA Method A clean-up level. Since the contaminated area is enclosed by buildings, bermed planting strips and paved parking areas, it was felt that the only route of concern would be the groundwater route.

On the basis of this SHA, completed by the SKCDPH's Environmental Health Division, this site will be scored for the groundwater route under the MTCA regulations.

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): N/A

ROUTE 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: 8.8

OVERALL RANK: 5

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

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

Not applicable to site/not scored.

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

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

Not applicable to site/not scored.

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.

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Source: 2

TPH-Heavy oil

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

The above substance concentration is above the MTCA Method A cleanup standard.

List those management units to be considered for scoring: Source: 2,3

Sub-surface soil contamination.

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

Sub-surface soil with no containment.

**WORKSHEET 3
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.	WOE	Carcino- genicity PF*	Val.
1. TPH-Heavy oil	ND	--	ND	--	2.0	1	ND	-	-

*Potency Factor

Source: 2, 3
Highest Value: 1
(Max.=10)

+2 Bonus Points?
Final Toxicity Value: 1
(Max.=12)

1.2 Mobility (Use numbers to refer to above listed substances)

Cations/Anions: 1= <10 Source: 1 Value: 0
(Max.=3)

OR

Solubility(mg/l): 1= ; 2= ; 3= ; 4= ; 5= ;
6= .

1.3 Substance Quantity: < 10 cubic yards Source: 3 Value: 1
Explain basis: 5'x5'x2' area (Max.=10)

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 3 Value: 10
Explain basis: spill discharge to soil (Max.=10)

2.2 Net Precipitation: 18.7 inches Source: 4 Value: 2
(Max.=5)

2.3 Subsurface Hydraulic Conductivity: silt/clay/till Source: 3 Value: 2
(Max.=4)

2.4 Vertical Depth to Ground Water: 0-25 feet Source: 3 Value: 8
(Max.=8)

3.0 TARGETS

3.1 Ground Water Usage: public supply/alternate sources Source: 6 Value: 4
(Max.=10)

3.2 Distance to Nearest Drinking Water Well: 4600 ft Source: 6 Value: 2
(Max.=5)

3.3 Population Served within 2 Miles: $\sqrt{\text{pop.}} = \sqrt{405} = 20$ Source: 6 Value: 20
(Max.=100)

3.4 Area Irrigated by (Groundwater) Wells
within 2 miles: $0.75\sqrt{\text{no. acres}} = 224$ Source: 7 Value: 11
 $0.75\sqrt{224} = 0.75 (15) = 11$ (Max.=50)

4.0 RELEASE

Explain basis for scoring a release to ground Source: 3 Value: 0
water: no confirmed release (Max.=5)

SOURCES USED IN SCORING

1. WA ranking method toxicological data-base.
2. Analytical results for UCO Corp., Onsite Environmental Inc., 1999.
3. Site hazard assessment, King Co. Health, March 1999.
4. National Weather Service Data.
5. Model Toxics Control Act cleanup regulations, chapter 173-340 WAC.
6. WA State DOH public water supply listing.
7. WA State water use data.