



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

P.O. Box 47600 • Olympia, Washington 98504-7600
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

August 12, 1996

Mr. Bill Archer
U.S. West Business Resources, Inc.
421 S.W. Oak Street, Room 6N5
Portland, OR 97204

Subject: Site Hazard Assessment - U.S. West-Capital Peak
Ecology Site No.: S-34-6194-000

Dear Mr. Archer:

The Department of Ecology (Ecology) will conduct a site hazard assessment (SHA) of U.S. West-Capital Peak, Capital Peak, WA 98502, under the Model Toxics Control Act (MTCA), Chapter 173-340-320 WAC. This assessment will be performed by Donna Freier, Thurston County Health Department. She will contact you in the near future to arrange a suitable time for a site visit.

The purpose of an SHA is to gather information on past/present waste management activities, along with other basic site-specific environmental data, in order to score the site following the Washington Ranking Method (WARM) Scoring Manual guidelines. Potential/actual threats to human health and the environment are evaluated for each applicable migration route, with a resultant "hazard ranking" for the site determined.

Sites are ranked on a scale of one to five, with one representing the highest level of concern, and five the lowest, relative to all other assessed/ranked sites in the state. The level of relative concern may be such that a recommendation of "No Further Action" (NFA) is made, and your site will then be removed from Ecology's Site Information System (SIS) list.

For your information, Ecology will publish a notice in an upcoming issue of the Site Register that an SHA is scheduled for this site. This notice may evoke media inquiries. Likewise, the outcome of the SHA, either as a ranked site or a determination as NFA, will be published in the Site Register.

In addition to any required field work, the following information



Mr. Bill Archer
Page 2
August 12, 1996

will be considered in scoring this site:

- Ecology Southwest Regional Office Site Files

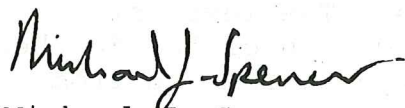
You are requested to submit any additional environmental information regarding this site to:

Ms. Donna Freier
Thurston County Environmental Health
2000 Lakeridge Drive
Olympia WA 98502

Additional data could include any environmental assessments or laboratory analyses which have been conducted regarding this site and which have not previously been submitted to Ecology. Every attempt will be made to obtain the most recent and accurate data for scoring your site. If you have better information or comments on the adequacy of the data we already have, please let us know as soon as possible. The final site rank and eventual site priority will be based primarily on the information used in the scoring. Your active participation in the assessment and scoring process is important to insure that only the best data available is used.

Fact sheets describing Site Hazard Assessments, the Washington Ranking Method and the Hazardous Sites List are enclosed for your information. If you have any questions please call me at (360) 407-7195 or Donna Freier at (360) 754-4111, ext. 6509.

Sincerely,



Michael J. Spencer
Site Hazard Assessments
Toxics Cleanup Program

MJS:ms
Enclosures

cc: Donna Freier, Thurston County Health Department
Dick Heggen, Ecology Toxics Cleanup Program, SWRO

WORKSHEET 1
SUMMARY SCORE SHEET

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

U.S. West-Capital Peak Communication Facility
Capital Peak, Thurston County, WA
T17N, R4W, Section 11
Ecology Site No. S-34-6194-000

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

In December 1993, a 500-gallon, #1 diesel fuel above-ground storage tank was installed to replace an underground storage tank (same size and fuel) that had been decommissioned (by removal) in August 1993. In May 1994, a diesel spill was discovered that originated from the AST pipeline. The spill resulted from incorrectly installed piping (no anti-siphon valve) and occurred between the tank and the generator. An estimated 150 to 175 gallons of diesel fuel was spilled into the ground (from inside of an unlined and buried trench). Contaminated soil was identified at the US West fenceline and on adjacent Weyerhaeuser property.

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):

As a note, the UST that was decommissioned in August 1993 had leaked and as a result was decommissioned. Contaminated soil was over-excavated to below MTCA cleanup levels as reported in a November 3, 1993, report for Ecology Site No. 010431.

Due to the primarily subsurface nature of any remaining on-site soil contamination, the groundwater migration route is the only applicable route to score for WARM ranking purposes.

ROUTE SCORES:

Surface Water/Human Health: N/A
Air/Human Health: N/A
Ground Water/Human Health: 27.7

Surface Water/Environ.: N/A
Air/Environmental: N/A

OVERALL RANK: 5

WORKSHEET 2 ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

Surface water route not applicable to site, and thus not scored.

2. AIR ROUTE

Air route not applicable to site, and thus not scored.

3. GROUND WATER ROUTE

List those substances to be considered for scoring:

Diesel fuel

Source: 1

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

Soil and groundwater samples confirm the presence of diesel at concentrations that exceed MTCA cleanup levels.

List those management units to be considered for scoring:

Shallow surface soil, subsurface soil and groundwater

Source: 2, 3

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

Analytical data confirm the continued presence of diesel in soil and groundwater.

WORKSHEET 3 (If Required) SUBSTANCE CHARACTERISTICS WORKSHEET FOR MULTIPLE UNIT/SUBSTANCE SITES

Worksheet 3 not required.

WORKSHEET 4 SURFACE WATER ROUTE

Worksheet 4 not required.

WORKSHEET 5 AIR ROUTE

Worksheet 5 not required.

WORKSHEET 6 GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Std.		Acute Toxicity		Chronic Toxicity		Carcinogenicity		
	$\mu\text{g/L}$	Value	mg/kg -bw	Val	mg/kg/day	Val	WOE	PF*	Val
Diesel		6		5		3			ND

*Potency Factor

Source: 4 - TPH as Diesel (from naphthalene)

Highest Value: 6
(Max. = 10)

+2 Bonus Points?

Final Toxicity Value: 6
(Max. = 12)

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

Solubility(mg/l): Diesel present as product on groundwater = 3

Value: 3

1.3 Substance Quantity: 150 - 175 gallons Source: 1

Value: 1
(Max. = 10)

Explain basis: As indicated in Ecology spill report, usage meter was installed wrong; quantity released is an estimate.

2.0 MIGRATION POTENTIAL

2.1 Containment: Spill

Source: 1

Value: 10
(Max. = 10)

Explain basis: Discovery of pipeline leak.

2.2 Net Precipitation: 29.9 inches

Source: 5

Value: 3
(Max. = 5)

2.3 Subsurface Hydraulic Conductivity: $> 10^{-5}$ to 10^{-3} cm/sec Source: 2

Value: 3
(Max. = 4)

2.4 Vertical Depth to Ground Water: < 9 feet Source: 3

Value: 8
(Max. = 8)

3.0 TARGETS

- 3.1 Ground Water Usage: Resource not used, and questionably usable based on geologic conditions and "extremely slow" recharge. Source: 2 and 6 Value: 2
(Max. = 10)
- 3.2 Distance to Nearest Drinking Water Well: > 10,000 ft Source: 7 Value: 0
(Max. = 5)
- 3.3 Population Served within 2 Miles: pop. = 0 = 0 Source: 8 Value: 0
(Max. = 50)
- 3.4 Area Irrigated by (Groundwater) Wells within 2 miles: Source: 9 Value: 0
0.75√no.acres = 0.75√0 = 0.75 (0) = 0 (Max. = 100)

4.0 RELEASE

Explain basis for scoring a release to groundwater: Source: 3 and 6 Value: 5
(Max. = 5)

Analytical data for 7 sampling rounds between October 26, 1994 and January 3, 1996 confirm the presence of diesel as product on the water table and in solution above MTCA cleanup levels. Approximately 3" of product were observed in groundwater retrieved by bailer from MW-1 during a site visit on Sept. 25, 1996. (Photos in file.)

SOURCES USED IN SCORING

1. DOE Environmental Report, SWRO, ID# S10849, August 17, 1994.
2. Letter of Transmittal (Data Summary) from Agra Earth & Environmental to US West Business Resources, Inc., dated 12/7/94. (Analytical soil data and geologic logs.)
3. Letter from Pemco to US West Communications dated December 13, 1995. (Comprehensive summary of analytical groundwater data from October 26, 1994 to October 24, 1995.)
4. Toxicology Database for Use in Washington Ranking Method Scoring, January 1992, 92-37.
5. "Table 16 - Estimated Evapotranspiration (Inches of water), E.M. 2462, Page 42" for Thurston County at Olympia Airport. Sum of (Precip-Ea(6)) for months of November through April.
6. Letter report from Pemco to USWest Communications dated January 17, 1996.

7. U.S.G.S. Topographic maps for Summit Lake, Washington, 7.5 minute series, 1981; Kamilche Valley, Washington, 7.5 minute series, 1981; and Rochester, Washington, 7.5 minute series, 1986.
8. State Department of Health Public Water Supply System Listing for Group A and B systems (excluding transient populations) within Township 17 N, Range 3 W, Sections 6 (SW $\frac{1}{4}$), 7 (SW $\frac{1}{4}$ & NW $\frac{1}{4}$), and 18 (NW $\frac{1}{4}$); Township 17 N, Range 4 W, Sections 1, 2, 3, 4 (NE $\frac{1}{4}$ & SE $\frac{1}{4}$), 9 (NE $\frac{1}{4}$ & SE $\frac{1}{4}$), 10, 11, 12, 13, 14, 15, 16 (NE $\frac{1}{4}$), 22 (NE $\frac{1}{4}$), 23 (NW $\frac{1}{4}$ & NE $\frac{1}{4}$), and 24 (NW $\frac{1}{4}$); and Township 18 N, Range 4 W, Sections 34 (SW $\frac{1}{4}$ & SE $\frac{1}{4}$), 35 (SW $\frac{1}{4}$ & SE $\frac{1}{4}$), and 36 (SW $\frac{1}{4}$ & SE $\frac{1}{4}$).
9. Washington Department of Ecology Water Rights Information System, September 26, 1996, for Township 17 N, Range 3 W, Sections 6 (SW $\frac{1}{4}$), 7 (SW $\frac{1}{4}$ & NW $\frac{1}{4}$), and 18 (NW $\frac{1}{4}$); Township 17 N, Range 4 W, Sections 1, 2, 3, 4 (NE $\frac{1}{4}$ & SE $\frac{1}{4}$), 9 (NE $\frac{1}{4}$ & SE $\frac{1}{4}$), 10, 11, 12, 13, 14, 15, 16 (NE $\frac{1}{4}$), 22 (NE $\frac{1}{4}$), 23 (NW $\frac{1}{4}$ & NE $\frac{1}{4}$), and 24 (NW $\frac{1}{4}$); and Township 18 N, Range 4 W, Sections 34 (SW $\frac{1}{4}$ & SE $\frac{1}{4}$), 35 (SW $\frac{1}{4}$ & SE $\frac{1}{4}$), and 36 (SW $\frac{1}{4}$ & SE $\frac{1}{4}$).

WASHINGTON RANKING METHOD

ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

Site name: US West-Capital Peak Communication Facility Region: SWRO

Street, city, county: Capital Peak, Thurston County, Washington T17N, R4W, Section 11

Ecology TCP ID: S-34-6194-000

This site was (X) ranked, () re-ranked, on _____ based on quintile values from a total of _____ assessed/scored sites.

Route Quintile
Pathway Score(s) Group number(s) Priority scores:

SW-HH 0 _____ $(H^2 + 2M + L)/8 = \underline{0.1} \rightarrow 1$

Air-HH 0 _____

GW-HH 27.7 1

SW-En 0 _____ $(H^2 + 2L)/7 = \underline{N/A}$

Air-En 0 _____

Use the matrix presented to the right, along with the two priority scores, to determine the site ranking. N/A refers to where there is no applicable pathway (e.g. typically with ground water route-only sites).	Environment					
	5	4	3	2	1	(N/A)
	Human Health					
	5	1	1	1	1	1
	4	1	2	2	2	3
	3	1	2	3	4	4
	2	2	3	4	4	5
	(1)	2	3	4	5	(5)
	N/A	3	4	5	5	N/A

DRAFT / FINAL

Matrix ("bin") Ranking: 5, or _____ No Further Action

CONFIDENCE LEVEL: The relative position of this site within this bin is:

_____ almost into the next higher bin.

_____ right in the middle, unlikely to ever change.

X almost into the next lower bin.

WASHINGTON RANKING METHOD SCORING PACKA

Input values from worksheets 4, 5, and 6 to these three spreadsheets. Press F9 to calculate scores

WORKSHEET 6 GROUND WATER ROUTE

US West-Capital Peak

=====

SUBSTANCE CHARACTERISTICS

Toxicity	6
Mobility	3
Substance Quantity	1
Containment	10

MIGRATION

Net Precipitation	3
Hydraulic Conductivity	3
Depth to Ground Water	8

TARGETS

Aquifer Usage	2
Nearest Well Distance	0
Population Served	0
Area Irrigated	0

RELEASE	5
---------	---

=====	=====
GW ROUTE SCORE	27.7
=====	=====

=====

=====

SCORE SUMMARY

US West-Capital Peak

=====

Surface Water Human Health	0.0
Air Human Health	0.0
Ground Water Human Health	27.7
Surface Water Environment	0.0
Air Environment	0.0

HUMAN HEALTH PRIORITY:

Select the high, middle, and low score from the three route scores for human health.

US West-Capital Peak

=====

High:	1.0
Medium:	0.0
Low:	0.0

Human Health Priority: 0.1



ENVIRONMENTAL PRIORITY:

Select the high and low score from the air and surface water routes for environment.

US West-Capital Peak

=====

High:	0.0
Low:	0.0

Environmental Priority: 0.0