



WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

Route not scored.

2. AIR ROUTE

Route not scored.

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Source: 1-3

Tetrachloroethylene (PCE)

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

Analytical results from soil samples.

List those management units to be considered for scoring: Source: 1-3

Contaminated surface soil.

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

Chemical analyses of on-site soils indicated significant concentrations of PCE.



WORKSHEET 3 (If Required)
 SUBSTANCE CHARACTERISTICS WORKSHEET
 FOR MULTIPLE UNIT/SUBSTANCE SITES
Combination 1 Combination 2 Combination 3

Unit: Section Not Applicable.

1. SURFACE WATER ROUTE

Substance(s):
 Human Toxicity Value:
 Environ. Toxicity Value:
 Containment Value:
 Rationale:

Surface Water Human
 Subscore: (+3) (+1) = (+3) (+1) = (+3) (+1) =
 () () = ____ () () = ____ () () = ____

Surface Water Environ.
 Subscore: (+3) (+1) = (+3) (+1) = (+3) (+1) =
 () () = ____ () () = ____ () () = ____

2. AIR ROUTE

Substance(s):
 Human Toxicity/Mobility
 Value:
 Environ. Toxicity/
 Mobility Value:
 Containment Value:
 Rationale:

Air Human Subscore: (+3) (+1) = (+3) (+1) = (+3) (+1) =
 () () = ____ () () = ____ () () = ____

Air Environ. Subscore: (+3) (+1) = (+3) (+1) = (+3) (+1) =
 () () = ____ () () = ____ () () = ____

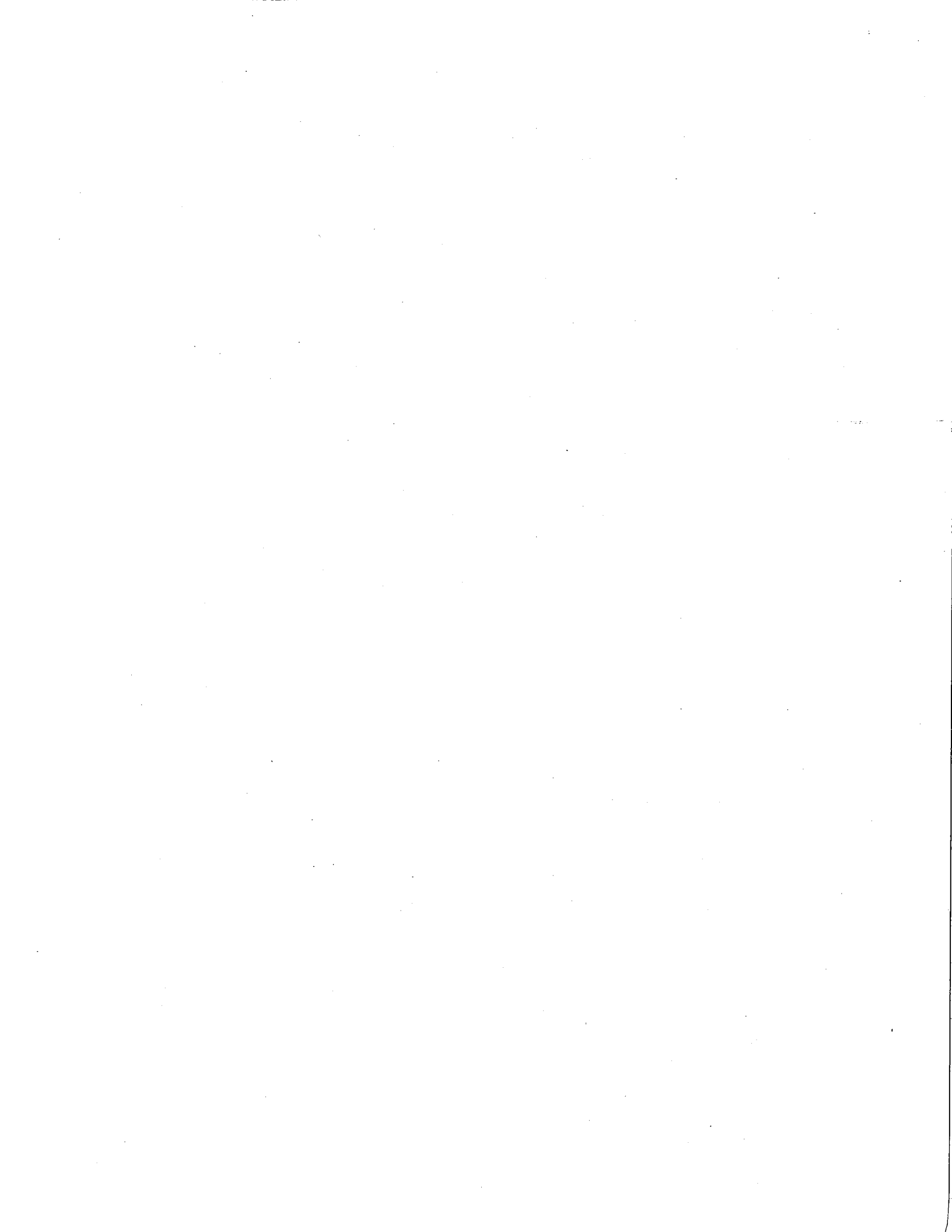
3. GROUND WATER ROUTE

Substance(s):
 Human Toxicity Value:
 Containment Value:
 Rationale:

Ground Water Subscore: (+3) (+1) = (+3) (+1) = (+3) (+1) =
 () () = ____ () () = ____ () () = ____

Based on their respective highest scoring toxicity/containment combinations, the following management units will be used for route scoring:

- Surface Water -
- Air -
- Ground Water -



(Note, since the surface water route was not scored, WORKSHEETS 4 and 4 are not used.)

WORKSHEET 6
GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard		Acute Toxicity		Chronic Toxicity		Carcinogenicity		
	(ug/l)	Val.	(mg/kg-bw)	Val.	(mg/kg/day)	Val.	WOE	PF*	Val.
1. PCE	5	8	800	5	0.01	3	B2=0.8	.051=5	4

* Potency Factor Source: 1,2,4
Highest Value: 8
(Max.=10)
+ Bonus Points? -
Final Toxicity Value: 8
(Max.=12)

1.2 Mobility (Use numbers to refer to above listed substances)
Cations/Anions: _____ Source: 4 Value: 2
(Max.=3)

OR
Solubility (mg/l): 1 = 1.5E+2 = 2

1.3 Substance Quantity: Unknown; use default value = 1 Source: 1,2,5 Value: 1
Explain basis: _____

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 1-3 Value: 10
(Max.=10)
Explain basis: Spills/discharge to contaminated
soil = 10

2.2 Net Precipitation: _____ 1.7 inches Source: 6 Value: 1
(Max.=5)

2.3 Subsurface Hydraulic Conductivity: Sand/gravel Source: 1,2 Value: 4
(Max.=4)

2.4 Vertical Depth to Ground Water: _____ < 25 feet Source: 1,2 Value: 8
(Max.=8)



WORKSHEET 6 (CONTINUED)
GROUND WATER ROUTE

3.0 TARGETS

- 3.1 Ground Water Usage: Pub./priv./unthr.alt.avail. Source: 1,2,7 Value: 4
(Max.=10)
- 3.2 Distance to Nearest Drinking Water Well: < 600 ft Source: 7 Value: 5
(Max.=5)
- 3.3 Pop. Served within 2 Miles: $\sqrt{\text{pop.}=\sqrt{3802}=61.6=62}$ Source: 7 Value: 62
(Max.=100)
- 3.4 Area Irrigated by (Groundwater) Wells
within 2 miles: $0.75\sqrt{\text{no.acres}}=$ Source: 8 Value: 15
 $0.75\sqrt{418.5} = 15$ (Max.=75)

4.0 RELEASE

Explain basis for scoring a release to ground water: Documented by analytical data. Source: 1,2 Value: 5
(Max.=5)

SOURCES USED IN SCORING

1. Preliminary Integrity Assessment of Two Underground Storage Tanks (USTs) and Three Industrial Waste Water Sumps, 1201 South First Street and 307 East Arlington Street, Yakima, Washington, Earth Consultants, October, 1989.
2. Fifth Wheel Truck Repair Facility Environmental Investigation and Remediation, Maxim Technologies,
3. Ecology letter to Earth Consultants, February 1990.
4. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January 1992.
5. Washington Department of Ecology, WARM Scoring Manual, April 1992.
6. See attached table identified as Reference 6.
7. DOH Public Water Supply System Listing.
8. Ecology Water Rights Information System (WRIS).