

CSID 4064

NFA

**WORKSHEET 1
SUMMARY SCORE SHEET**

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

Storey Gas Station S-25 TCP ID#C-19-2019-000
1301 E First Street T-20
Cle Elum, WA 98922 R-15

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

Storey Gas Station is a high volume distributor of gas, diesel and motor oil. The site contains nine large aboveground tanks, with a capacity of 137,000 gallons of gasoline and diesel. This site also has three underground tanks with a total capacity of 4500 gallons. The underground tanks are in a pit behind the station building. This pit is deep enough that it is filled with ground water. The aboveground tanks do not have secondary containment. The site has been cited numerous times by the Kittitas County Fire Marshall for improper equipment to store and dispense hazardous materials such as gasoline and diesel. An irrigation ditch is located on the south boundary of the site. This ditch is used to irrigate approximately 600 acres of hayland and is also used to water livestock.

Reports have been made to the Department of Ecology on February 7, 1995 and April 26, 1995 by the County Fire Marshall concerning unreported releases of petroleum based products. The site was visited by the Department of Ecology on April 26, 1995 and a determination was made that a release of a hazardous substance that may pose a threat to human health and the environment has occurred.

On November 21, 1995 a complaint was filed with Kittitas County concerning oil in the irrigation ditch. The source of the oil originated from Storey Property. The following afternoon The Department of Ecology responded and applied oil booms to contain the spill. The pictures that were taken indicated approximately 55 gallons of oil was released in the irrigation ditch.

The overall history and operation of the site indicate that the equipment is in disrepair and the handling of hazardous substances is such that numerous spills have occurred the years. The oldest documentation of the condition of the tanks and indication that spills have occurred is 1991.

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):

Storey Gas Station was not sampled due to heavy snow and inclement weather. The site was scored on a history of visual observation and photographic evidence of leaking and faulty equipment associated with the operation of the gas station.

ROUTE SCORES:

Surface Water/Human Health: 29.5 Surface Water/Environ.: 25.7

Air/Human Health: 21.2 Air/Environmental: 29.2

Ground Water/Human Health: 48.6

OVERALL RANK: 1

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

List those substances to be considered for scoring:

Source: 8, 16

TPH as diesel
TPH as gasoline

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

The station only dispenses gasoline, diesel fuel and motor oil. Photographs show chronic equipment failure resulting in discharge of the above.

List those management units to be considered for scoring:

Source: 8, 16

Contaminated soils.

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

Source: 8, 16

Visual and photographic evidence of soil staining, surface water contamination.

2. AIR ROUTE

List those substances to be considered for scoring:

Source: 8, 16

TPH as diesel
TPH as gasoline

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

The station only dispenses gasoline, diesel fuel and motor oil. Photographs show chronic equipment failure resulting in discharge of the above.

List those management units to be considered for scoring:

Source: 8, 16

Contaminated soils.

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

Source: 8, 16

Visual and photographic evidence of soil staining.

WORKSHEET 2 (CONTINUED)
ROUTE DOCUMENTATION

3. GROUND WATER ROUTE

List those substances to be considered for scoring:

Source: 8.16

TPH as diesel

TPH as gasoline

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

The station only dispenses gasoline, diesel fuel and motor oil. Photographs show chronic equipment failure resulting in discharge of the above.

List those management units to be considered for scoring:

Source: 8.16

Contaminated soils.

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

Visual and photographic evidence of soil staining.

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

Combination 1 Combination 2 Combination 3

Unit:

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:

Not Applicable

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 -

**WORKSHEET 4
SURFACE 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. TPH as diesel	20	6	490	5	0.004	3	-	-	-
2. TPH as gasoline	5	8	3306	3	-	-	1.0	0.029	3
3.									
4.									
5.									
6.									

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

1.2 Environmental Toxicity

Freshwater
 Marine

Substance	Acute Water Quality Criteria		Non-human Mammalian Acute Toxicity		Source: <u>1</u> Value: <u>2</u> (Max.=10)
	(ug/l)	Value	(mg/kg)	Value	
1. TPH as diesel	2300	2	490	5	
2. TPH as gasoline	5300	2	3306	3	
3.					
4.					
5.					
6.					

1.3 Substance Quantity: _____ Source: 15 Value: 7
 Explain basis: Once filled volume of all tanks -
141,500 gallons

WORKSHEET 4 (CONTINUED)
SURFACE WATER ROUTE

2.0 MIGRATION POTENTIAL

- 2.1 Containment Source: 8 Value: 10
Explain basis: (Max.=10)
Contaminated soil at surface, no run on/off controls
- 2.2 Surface Soil Permeability: Sand/gravel Source: 5 Value: 1
(Max.=7)
- 2.3 Total Annual Precipitation: 22.1 inches Source: 6 Value: 2
(Max.=5)
- 2.4 Max. 2-Yr/24-hour Precipitation: 2.0 - 2.5 inches Source: 7 Value: 3
(Max.=5)
- 2.5 Flood Plain: 500 year Source: 4 Value: 1
(Max.=2)
- 2.6 Terrain Slope: <2 % Source: 3 Value: 1
(Max.=5)

3.0 TARGETS

- 3.1 Distance to Surface Water: 50 feet Source: 3 Value: 10
(Max.=10)
- 3.2 Population Served within 2 miles (See WARM Scoring Manual Regarding Direction): $\sqrt{\text{pop.}} = \sqrt{0} =$ Source: 18 Value: 0
(Max.=75)
- 3.3 Area Irrigated within 2 miles $0.75\sqrt{\text{no. acres}} = 600$
(Refer to note in 3.2.): $0.75\sqrt{600} = 0.75(24.5) = 18.4$ Source: 13, 17 Value: 18
(Max.=30)
- 3.4 Distance to Nearest Fishery Resource: 2500 feet Source: 3 Value: 9
(Max.=12)
- 3.5 Distance to, and Name(s) of, Nearest Sensitive Environment(s) 1100 feet to wetland
labeled PROC Source: 9 Value: 9
(Max.=12)

4.0 RELEASE

- Explain basis for scoring a release to surface water: Source: 15 Value: 5
(Max.=5)
Photographs documented a release of oil to surface water.

**WORKSHEET 5
AIR ROUTE**

1.0 SUBSTANCE CHARACTERISTICS

1.1 Introduction (WARM Scoring Manual) - Please review before scoring

1.2 Human Toxicity

Substance	Air Standard		Acute Toxicity		Chronic Toxicity		Carcinogenicity		
	(ug/m ³)	Val.	(mg/m ³)	Val.	(mg/kg/day)	Val.	WOE	PF*	Val.
1. WTPH - diesel	166.5	4	490	-	ND		-	-	-
2. WTPH - gasoline	0.12	10	3306	3	ND		1.0	0.029	3
3.									
4.									
5.									

*Potency Factor

Source: 1
Highest Value: 10
(Max.=10)

+2 Bonus Points? _____
Final Toxicity Value: 10
(Max.=12)

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

1.3.1 Gaseous Mobility

Vapor Pressure(s) (mmHg): 1= 0.082 ; 2= 95 ;
3= _____ ; 4= _____ ; 5= _____ ; 6= _____

Source: 1
Value: 4
(Max.=4)

1.3.2 Particulate Mobility

Soil type: _____
Erodibility: _____
Climatic Factor: _____

Source: _____
Value: _____
(Max.=4)

1.4 Highest Human Health Toxicity/Mobility Matrix Value (from Table A-7) equals

Source: 1
Final Matrix Value: 20
(Max.=24)

1.5 Environmental Toxicity/Mobility

Substance	Non-human Mammalian Acute (Table A-7)				
	Inhal. Toxicity (mg/m ³)	Value	Mobility (mmHg)	Value	Matrix Value
1. WTPH - diesel	ND	-	0.082	2	
2. WTPH - gasoline	31947	3	95	4	
3.					
4.					
5.					

Highest Environmental Toxicity/Mobility Matrix Value
(From Table A-7) equals

Source: 1
Final Matrix Value: 6
(Max.=24)

WORKSHEET 5 (CONTINUED)
AIR ROUTE

1.6 Substance Quantity: _____
Explain basis: Once filled volume of all tanks - 141,500 gallons

Source: 17 Value: 7
(Max.=10)

2.0 MIGRATION POTENTIAL

2.1 Containment: Containers deteriorated, leaking, not protected
from the weather; waste piles outdoors and uncovered

Source: 8, 15 Value: 10
(Max.=10)

3.0 TARGETS

3.1 Nearest Population: < 200 feet

Source: 3, 8 Value: 10
(Max.=10)

3.2 Distance to, and Name(s) of, Nearest Sensitive
Environment(s) 1100 feet to wetland labeled PROC

Source: 9 Value: 6
(Max.=7)

3.3 Population within 0.5 miles: $\sqrt{\text{pop.}} = \sqrt{195} =$ _____
65 buildings and 30 people

Source: 3 Value: 14
(Max.=75)

4.0 RELEASE

Explain basis for scoring a release to air: _____
None - documented

Source: 8 Value: 0

**WORKSHEET 6
GROUND WATER ROUTE**

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard		Acute Toxicity		Chronic Toxicity (mg/kg/day)	Carcinogenicity	WOE	PF*	Val.
	(ug/l)	Val.	(mg/kg-bw)	Val.					
1. WTPH - diesel	20	6	490	5	0.004	3	-	-	-
2. WTPH - gasoline	5	8	3306	3	-	-	-1.0	.029	3
3.									
4.									
5.									
6.									

*Potency Factor

Source: 1

Highest Value: 8
(Max.=10)

+2 Bonus Points? 2

Final Toxicity Value: 10
(Max.=12)

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

Cations/Anions: 1= ; 2= ; 3= ; 4= ; 5= ;
6= .

Source: 2 Value: 3
(Max.=3)

OR

Solubility(mg/l): 1= 30 mg/l ; 2= 1,800 mg/l ; 3= ; 4= ; 5= ;
6= .

1.3 Substance Quantity: 141,500 gallons

Explain basis: Once filled volume of all tanks - 141,500 gallons.

Source: 15 Value: 7
(Max.=10)

2.0 MIGRATION POTENTIAL

2.1 Containment

Explain basis: Numerous spills: WARM assigned a containment valve of 10.

Source: 2 Value: 10
(Max.=10)

2.2 Net Precipitation: 26.0 inches

Source: 6 Value: 3
(Max.=5)

2.3 Subsurface Hydraulic Conductivity: > 10⁻³

Source: 2 Value: 4
(Max.=4)

2.4 Vertical Depth to Ground Water: 0 feet

Fuel tanks in a pit filled with groundwater

Source: 8 Value: 8
(Max.=8)

WORKSHEET 6 (CONTINUED)
GROUND WATER ROUTE

3.0 TARGETS

- 3.1 Ground Water Usage: Private, alternate sources available
with minimum hookups Source: 2 Value: 4
(Max.=10)
- 3.2 Distance to Nearest Drinking Water Well: 3000 ft Source: 3 Value: 2
(Max.=5)
- 3.3 Population Served within 2 Miles: $\sqrt{\text{pop.}} = \sqrt{\quad} = \underline{2500}$ Source: 18 Value: 50
City of Cle Elum (Max.=50)
- 3.4 Area Irrigated by (Groundwater) Wells
within 2 miles: $0.75\sqrt{\text{no. acres}} = \underline{30}$ Source: 17 Value: 5
 $0.75\sqrt{30} = 0.75(6) = 4.5$ (Max.=100)
- 4.0 RELEASE**
Explain basis for scoring a release to ground water: None - documented Source: 8 Value: 0
(Max.=5)

SOURCES USED IN SCORING

1. *Washington Department of Ecology, Toxicology Database for use in WARM Scoring, January 1992.*
2. *Washington Department of Ecology, WARM Scoring Manual April 1992.*
3. *USGS 7.5 minute Topographic Quadrangle - Cle Elum - Washington.*
4. *Flood Insurance Rate Map Kittitas County, Washington - Community - Panel Number 530095 0261B May 1981.*
5. *USDA Soil Conservation Survey, Soil Survey of Kittitas County.*
6. *Washington Climate for Kittitas County, May 1979.*
7. *NOAA Atlas 2, Volume IX, Isopluvials of 2 yr., 24 hr precipitation in tenths of an inch, US Dept. Of Commerce.*
8. *Kittitas County Department of Solid Waste Site Hazard Assessment Field Investigations, January 17, 1996.*
9. *National Wetland Inventory, map Cle Elum, Washington*
10. *Water Well Report, State of Washington.*
11. *Sole Source Aquifers in the State of Washington, EPA 1995.*
12. *Washington Cities Directory, 1994-1995*
13. *Water Rights Information System, Washington Department of Health, Spokane.*
14. *1995 population determination, Office of Financial Management, June 5, 1995.*

15. *Numerous photographs taken by Fire Marshall, July 18, 1995 and November 21, 1995.*
16. *Department of Ecology early notice letter regarding a release of hazardous substance July 20, 1995*
17. *Conversation between Fire Marshall, Gerald L. Tousley and Mr. Hinshaw concerning volume of hazardous materials and agricultural concerns, January 22, 1996.*
18. *City of Cle Elum Comprehensive Plan Draft I, February 28, 1995.*

**DEPARTMENT OF ECOLOGY
TOXICS CLEANUP PROGRAM**

**SITE HAZARD ASSESSMENT DATA COLLECTION SUMMARY SHEETS
FOR WASHINGTON RANKING METHOD**

SURFACE WATER, AIR AND GROUND WATER ROUTES ONLY

Site Name: Storey Gas Station

Location: 1310 E First Street, Cle Elum WA 98922

Site owner/operator: Mr. Earl Storey

Address: 1310 E First Street, Cle Elum WA 98922

Any other known PLP (s): N/A

Address: N/A

Date (s) of field site hazard assessment: 1/17/96

Samples or field measurements:

No surface water No soil

No air No ground water

(Attached copies of pertinent sampling and analytical data, as well as all other supporting documentation.)

Photographs: Yes

Weather: Rainy, snow on ground 30^o F

Lead inspector: Gerald L. Tousley

Other inspectors: Darold Gaidos, Fire Marshall

Signature: Gerald L. Tousley

Part I. Hazardous Substances

Note: Page number shown by "route" (e.g. SW-2, A-13) in parentheses refer to the WARM Scoring Manual. WK-numbers refer to page numbers of the worksheets at the end of the scoring manual.

A. Hazardous substances

List specific hazardous substances, known or suspected (check k or s), currently, or that have been previously (check c or p), at the site property (WK-2, WK-3). Give an estimate, if available, of the quantity (not concentration):

Hazardous Substance	K	S	C	P	Quantity	Units
1. <u>TPH - Diesel</u>						
2. <u>TPH - Gasoline</u>						
3. _____						
4. _____						
5. _____						

By which routes are these available? (WK-2, WK-3)

Number (from above)	Surface Water	Air	Groundwater
1. <u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>
2. <u>2</u>	<u>X</u>	<u>X</u>	<u>X</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____

References: Photograph documentation

B. SOURCES

Check those known or observed (WK-2, WK-3):

- drums or other containers
- electrical transformers
- above ground tanks
- below ground tanks
- ponds, pits, or other impoundments
- pipelines (other than water, sewer, or gas)
- floor drains
- exterior drains for rainwater, surface waters, spills, etc.
- Other? Identify: Portable fuel pump and hoses

Additional information/references: _____

C. INDICATORS Check those known or observed (SW-5; A-8, A-9; GW-6):

- discolored soils
- disturbed soils
- discolored standing water
- unusual or noxious odors
- sick or dead vegetation
- groundwater monitoring wells
- other? Identify: Water in pit where tanks are submerged

If any are checked in B or C, explain details including exact locations (identify location on a map or drawing). *See attached map*

Additional information/references: Numerous photographs documenting spill.

PART II: Releases

A. KNOWN OR SUSPECTED RELEASES

List those hazardous substances identified (by number) in I.A. which are know, or suspected, to have been released (WK-2, WK-3):

<u>Substance (#)</u>	<u>Quant. Released</u>	<u>Units</u>	<u>Medium Released to</u>
<u>1</u>	<u>Unknown</u>	<u></u>	<u>soil, groundwater, air</u>
<u>2</u>	<u>Unknown</u>	<u></u>	<u>soil, groundwater, air</u>
<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>

Additional information/referencences: Photographs

B. SOURCES AND IMPACTS (SW-5, SW-6; A-9, A-10; GW-6, GW-7)

List those hazardous substances identified (by number) in II. A. and identify the source and impact:

<u>Substance No.</u>	<u>Source</u>	<u>Impacts/Affects to</u>	<u>Area</u>
<u>1</u>	<u>10</u>	<u>air, soil, groundwater</u>	<u>behind gas station, tank farm</u>
<u>2</u>	<u>10</u>	<u>air, soil, groundwater</u>	<u>behind gas station, tank farm</u>
<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>

Additional information/referencences: _____

III. Migration Potential

A. CONTAINMENT -- LANDFILLS (SW-7; A-11; GW-8, GW-9)

Present? N/A How many?

Check those that apply:

- 1. An engineered, maintained run-on/run-off control system
- 2. An engineered/maintained cover without ponding
- 3. Unmaintained run-on/runoff control or no cover
- 4. No run-on/runoff control or no cover
- 5. Uncontaminated soil cover greater than 6" thick
- 6. Uncontaminated soil cover less than 6" thick
- 7. Contaminated soil used as cover
- 8. A functioning vapor collection system
- 9. Mixing or agitation used
- 10. No liner
- 11. Single clay or compacted soil liner (permeability cm/sec)
- 12. Single synthetic liner (permeability cm/sec)
- 13. Double liner system (permeability cm/sec)
- 14. Leachate collection system, maintained and functioning
- 15. Leachate collection system, unknown condition or not functioning
- 16. Liquid wastes may have been disposed of
- 17. Liquid wastes were disposed of in landfill
- 18. Reliable evidence no liquid wastes were disposed

Additional comments/references: _____

B. CONTAINMENT - - SURFACE IMPOUNDMENTS (SW-8; A-12; GW-9)

Present N/A How many?

Check those that apply:

- 1. The dike is apparently sound
- 2. The dike is regularly inspected and maintained
- 3. There is evidence of failure, erosion, slumping, or release of contents
- 4. Two feet of freeboard maintained automatically
- 5. The freeboard is manually controlled so that there is at least 2 feet of freeboard
- 6. Evidence of insufficient freeboard (<2 ft.)
- 7. A maintained cover
- 8. Unmaintained cover, no cover
- 9. No liner
- 10. Single synthetic liner
- 11. Single clay or compacted soil liner
- 12. Double liner
- 13. Working leak detection system
- 14. Evidence of loss of fluid (other than by evaporation)
- 15. Mixing/agitation processes used

Additional comments/references: _____

C. CONTAINMENT -- DRUMS AND SMALL CONTAINERS (SW-9; A-10; GW-10)

Present Yes How many? 20+

Check those that apply:

- 1. No functional containment
- 2. There is secondary containment capacity for the total volume of containers
- 3. There is secondary containment with capacity for at least 110% of the volume of the largest container
- 4. The secondary containment is less than 110% of the volume of the largest container
- 5. The containers are stored in single, or double layers on pallets, or in racks
- 6. The containers are stored in an unstable manner
- 7. Some containers are open or have visible liquid
- 8. Some containers are leaking
- 9. Containers are protected from weather
- 10. Containers showing deterioration
- 11. Containment surface is impervious
- 12. Containment surface has cracks or semi-permeable
- 13. No base material/permeable base such as gravel/base materials unknown
- 14. Evidence of containment failure

Additional comments/references: _____

D. CONTAINMENT - - STORAGE TANKS (SW-9; A-10; GW-10)

Present? Yes How many? 16

Check those that apply:

- 1. _____ Secondary containment with a capacity of 110% of the volume of the tanks
- 2. _____ Secondary containment at least 50% of the volume of all tanks
- 3. _____ Containment system with capacity for at least 10% of volume of containers or tanks
- 4. X _____ No containment, or less than 10% capacity
- 5. _____ Tank volumes maintained
- 6. _____ Automatic controls used for volume maintenance
- 7. _____ Tanks are covered
- 8. _____ Uncovered tanks have aeration, mixing, or heating of tank contents
- 9. _____ Containers sealed, protected
- 10. _____ Containers sealed, not protected
- 11. _____ Containers deteriorated
- 12. _____ Containers leaking
- 13. _____ Record the #s of above which apply only to above ground tank 13
- 14. _____ Record the #s of above which apply only to below ground tanks 3
- 15. _____ Record the #s of above which apply to both above and below ground tanks:
16

Additional comments/references: The three below ground tanks are in groundwater

E. CONTAINMENT - - WASTE PILES (SW-10; A-11; GW-11)

Present? N/A How many? _____

Check those that apply: *Previous remediation*

- 1. _____ Waste pile is outside, no protecting structure
- 2. _____ Waste pile is outside, in open structure with roof
- 3. _____ Waste pile is outside, with partial or unmaintained cover
- 4. _____ Waste pile is outdoors, with maintained cover
- 5. _____ No cover is present
- 6. _____ Waste pile is fully enclosed, intact building
- 7. _____ There is an engineered run-on/run-off control
- 8. _____ The run-on/run-off control is maintained
- 9. _____ Run-on/run-off control system present, unknown condition
- 10. _____ No run-on/run-off control system present, or unknown if present
- 11. _____ Liner or base present; _____ Not present
- 12. _____ Single clay or compacted soil liner
- 13. _____ Single synthetic liner
- 14. _____ Double liner
- 15. _____ Maintained, functioning leachate collection system
- 16. _____ Leachate collection system; _____ Unknown condition;
or _____ Not functioning

Additional comments/references: _____

F. CONTAINMENT - - SPILLS, DISCHARGES, AND CONTAMINATED SOIL

(SW-10; A-12; GW-12)

Check those that apply:

- 1. Spill, discharge, or contaminated soil only in the subsurface at the site -- including dry wells, drainfields, leaking underground storage tanks
- 2. Soil contamination that has been covered *partially excavated* and filled with at least 6 inches of clean soil
- 3. Soil contamination that has been covered or partially excavated and filled with less than 6 inches of clean soil
- 4. Uncontaminated soil cover >2 feet thick
- 5. No cover; or Cover <2 feet, but > 6" thick
- 6. Spill, discharge, or contaminated soil present at the surface in an area with maintained run-on/run-off control
- 7. Spill, discharge, or contaminated soil present at the surface in an area with unmaintained run-on/run-off controls?
- 8. Spill, discharge, or contaminated soil present at the surface with no run-on/run-off control or unknown controls.
- 9. Contaminated soil has been disturbed or excavated and stored above grade
- 10. A functioning vapor recovery system
- 11. No vapor recovery system

Additional comments/references: _____

G. CONTAINMENT - - SITE CHARACTERISTICS

(SW-11, SW-12, SW-13, SW-14; GW-12, GW-13; WK-5-9)

1. How would you evaluate the site soils? Circle predominant textural class. Sand, gravel, sandy gravel, well-graded sand, well-graded gravel, gravelly sand, gravelly sand loam, silty sandy loam? Poorly-graded sand with fines, silt-sand mixtures, loam, silt loam, sandy silt loam, clayey sand, clay sand loam? Clayey sands, sand-clay mixtures, clayey gravels, clay-sand-gravel mixtures, inorganic silts, clayey silt loam, silty clay loam, porous rock outcrop, sandy silty clay, sandy clay loam? Clay (organic and inorganic), clay loam, rock outcrop, peat, peaty clay?

Is the above based on personal observation, lab analysis, or professional judgment by a soil expert? (Circle)

2. Total annual precipitation = 22.10 in./yr. (SW-11; WK-6)3. Max. 2-Yr./24-hr precip. = ^{2.5 - 2.5}7.5 inches (SW-12; WK-6)4. Net precipitation (see 2.2, GW-12) = 26.0 in. (WK-9)
 $28.3 - 2.3 = 26$ 5. Is the site not in a flood plain? _____ (SW-12; WK-6)Is the site in a 500 year flood plain? Yes - Zone BIs the site in a 100 year flood plain? No6. What is the terrain slope to the nearest surface water? <2 % (SW-14; WK-6)7. What is the subsurface hydraulic conductivity? $\geq 10^{-3}$ cm/sec (GW-13; WK-9)8. What is the vertical depth from the deepest point of known contamination to ground water? 0 feet (GW-13; WK-9) GW at 4 feet - DOE statementAdditional comments/references: The underground tanks are in groundwater and a very strong smell of diesel in the pit.

4. What is the distance to the nearest fishery resource (overland flow distance to nearest surface water which is a fishery resource)? (SW-16, SW-17, SW-18; WK-6)

Over 10,000 feet? _____ Distance if less than 10,000 feet? ~2000 ft

5. What are the names of, and the distances to, the nearest sensitive environments (total of overland distances plus downgradient distances, count only overland flow distance if nearest sensitive environment is a fishery)? (SW-18; A-15; WK-6)

Over 10,000 feet? No Names and distances if less than 10,000 feet: PFOC 1100 feet; Powflx 2000 feet - from National Wetlands Inventory Maps

6. Is the aquifer a federally-designated sole source aquifer? No (GW-14; WK-9)

7. Is the ground water used for: (GW-14; WK-10)

- private supply
- public supply
- irrigation of human food crops or livestock
- non-food (human) vegetation
- not used due to natural contaminants
- ground water not used, but usable

8. Distance to nearest drinking water well? 3000 Feet
(GW-15; WK-10)

9. Is there an alternate source available to groundwater for private or public water supply?
(GW-14, WK-10) yes

10. Population served by drinking water wells within 2 miles? 2,500
(GW-115; WK-10)

11. Distance to the nearest population? <200 feet (A-13,; WK-8)
City of Cle Elum

12. Population within one-half mile radius? 195
(A-15; WK-8) 65 buildings X 3.0 people

Additional comments (e.g. potential for natural resource damage, or other ecological concerns, references): _____