

FILE COPY

WORKSHEET 1 SUMMARY SCORE SHEET

Note: This document currently has no provision for sediment route scoring.

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

Maid O'Clover
1802 East Nob Hill Boulevard
Yakima

Township 13 North, Range 19 East Willamette Meridian, Section 29

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

This site is an operating gasoline retail outlet and convenience store. In January of 1991, petroleum odors were reported in the basements of two residences located just south of Maid O' Clover. In response to a letter sent out to gasoline retail businesses and residences in the immediate area. Maid O' Clover and other stations nearby checked their underground storage tank (UST) systems and Main O' Clover reported a leak to WDOE within a few days. Independent attempts to characterize the contamination plume have been made, though Cleanup reports have not been received at this time. the management area is the documented subsurface contamination in contact with groundwater.

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):

Two special considerations for this site are the facts that domestic wells at residences adjacent to this site have shown petroleum contamination and that this site is in the vicinity of at least one other petroleum release, the Tiger Oil release in the early 1980's, that may have contributed to the contamination at this site and in the local area.

ROUTE SCORES:

Surface Water/Human Health: 2.3 () Surface Water/Environ.: 2.9 ()

Air/Human Health: 19.1 () Air/Environmental: 18.9 ()

Ground Water/Human Health: 72.9 ()

() indicate quintile score based on August 1991 quintile breakdown. Scores may change at August 1992 quintile breakdown.

OVERALL RANK: 2

WORKSHEET 2 (CONTINUED)
ROUTE DOCUMENTATION

2. AIR ROUTE

List substances to be considered for scoring: Source: 6

- | | | |
|------------|-----------------|--------------------------------|
| 1. benzene | 3. ethylbenzene | 5. Total Petroleum Hydrocarbon |
| 2. toluene | 4. xylene | |

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

Benzene, toluene, ethylbenzene and xylene were used in scoring. TPH was not used in scoring because the threat posed by TPH was judged to be represented by the four substances that were used.

List management units to be considered in scoring: Source: 6

1. Underground storage tank system

Explain basis for choice of unit used in scoring. Source: 13

The air route was scored due to the report and documentation of explosive levels of petroleum vapors in a neighboring (the Gilstrap) residence. I believe that this documentation, coupled with the sampling documentation for groundwater in the immediate area, show that a subsurface releases are available to the air route in this local area.

WORKSHEET 3
SUBSTANCE CHARACTERISTICS WORKSHEET
FOR MULTIPLE UNIT/SUBSTANCE SITES

Combination 1 Combination 2 Combination 3

Unit:

Substance:

SURFACE WATER ROUTE

Human Toxicity Value:

Environ. Toxicity Value:

Containment Value:

Surface Water Human
Subscore:

Surface Water Environ.
Subscore:

AIR ROUTE

Human Toxicity/Mobility
Value:

Environ. Toxicity/
Mobility Value:

Containment Value:

Air Human Subscore:

Air Environ. Subscore:

GROUND WATER ROUTE

Human Toxicity/
Mobility Value:

Containment Value:

Ground Water Subscore:

WORKSHEET 4 (CONTINUED)
SURFACE WATER ROUTE

2.0 MIGRATION POTENTIAL

- 2.1 Containment Source: 6 Value: 0
Explain basis: surface of area containing contamination is covered with an asphalt parking area.
- 2.2 Surface Soil Permeability: piped (sewer) to river Source: 7 Value: 7
- 2.3 Total Annual Precipitation: 7.86 inches Source: 5 Value: 1
- 2.4 Max. 2-Yr/24-hour Precipitation: 0.9 inches Source: 5 Value: 1
- 2.5 Flood Plain: Does not lie within flood plain Source: 2 Value: 0
- 2.6 Terrain Slope: < 2 % Source: 9 Value: 1

3.0 TARGETS

- 3.1 Distance to Surface Water: Yakima River <4500 Source: 7 Value: 4
- 3.2 Population Served within 2 miles: √pop.= 0 Source: 3,4 Value: 0
- 3.3 Area Irrigated within 2 miles: 0.75√no.acres= 3.35 Source: 3 Value: 3.35
- 3.4 Distance to Nearest Fishery Resource: <4300(Yakima) Source: 7 Value: 6
- 3.5 Distance to, and Name(s) of, Nearest Sensitive Environment(s) Yakima River <4500 feet Source: 7 Value: 6

4.0 RELEASE

- Explain basis for scoring a release to surface water: No release to surface water has been documented. Source: Value: 0

WORKSHEET 5 (CONTINUED)
AIR ROUTE

1.6 Substance Quantity: 10,000 gallons Source: 6 Value: 5
Explain basis: No documentation of release volume
has been provided, default quantity estimate
equals once filled volume of 10,000 Gallons.

2.0 MIGRATION POTENTIAL

2.1 Containment: Spill/discharge occurred in subsur- Source: 6 Value: 5
face only with no vapor collection system.

3.0 TARGETS

3.1 Nearest Population: Adjacent to south of site. Source: 13 Value: 10

3.2 Distance to, and Name(s) of, Nearest Sensitive
Environment(s) State Fairgrounds ≤1000; Yakima Source: 9 Value: 7
arboretum <2000;

3.3 Population within 0.5 miles: √population=√863=29.4 Source: 10 Value: 29

4.0 RELEASE

Explain basis for scoring a release to air: No Source: Value: 0
evidence is available to clearly identify the
source of petroleum vapors in the neighboring
residences, other past spills may have contri-
buted or created the vapor release.

WORKSHEET 6 (CONTINUED)
GROUND WATER ROUTE

3.0 TARGETS

3.1 Ground Water Usage: Public supply, No alternative Source: 7,8 Value: 9

3.2 Distance to Nearest Drinking Water Well: ≤ 600 ft Source: 7 Value: 5

3.3 Population Served within 2 Miles: $\sqrt{\text{pop.}} = \sqrt{4124} = 64.22$ Source: 3,4 Value: 64

3.4 Area Irrigated by (Groundwater) Wells
within 2 miles: $0.75\sqrt{\text{no. acres}} = 35.95$ Source: 3 Value: 36

4.0 RELEASE

Explain basis for scoring a release to ground water: Source of information documents free
petroleum product in contact with ground water.

_____ Source: 6 Value: 5