

Carlson at Distributing

WASHINGTON RANKING METHOD
ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

Site name: Carlson Distributing Co Region: ERO
Street, city, county: Colville Branch Rd, Colville, Shaver
Ecology Facility Site ID: 768

This site was (X) ranked, () re-ranked, for the August 26, 2003 Site Register update, based on the August 5, 2003 quintile update values from a total of 850-plus assessed/scored sites.

Pathway	Route Score(s)	Quintile Group number(s)	Priority scores:
SW-HH	<u>NS</u>	<u>0</u>	$\frac{1+0+0}{8} = \frac{1}{8} = 0.125 = 1$
Air-HH	<u>NS</u>	<u>0</u>	
GW-HH	<u>16.9</u>	<u>1</u>	
SW-En	<u>NS</u>	<u>0</u>	$\frac{0+0}{7} = 0/7 = N/A$
Air-En	<u>NS</u>	<u>0</u>	

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).

	Human Health	Environment					
		5	4	3	2	1	N/A
5		1	1	1	1	1	1
4		1	2	2	2	3	2
3		1	2	3	4	4	3
2		2	3	4	4	5	3
1		2	3	4	5	5	5
N/A		3	4	5	5	5	N/A

DRAFT / FINAL

Matrix ("bin") Ranking: 5

CONFIDENCE LEVEL: The relative position of this site within this bin is:
 almost into the next higher bin.
X right in the middle, unlikely to ever change.
 almost into the next lower bin.



Slipcase Co.
Carlson Oil Distributing Co.
TCL, SH.

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 14, 2003

Mr. Boyd Carlson
Carlson Distributing Company
P.O. Box 310
Colville, WA 99114

Subject: Site Hazard Assessment/Ranking – Carlson Distributing Co.
Ecology Facility Site ID: 768

Dear Mr. Carlson:

Ecology has completed the site hazard assessment (SHA) of the Carlson Distributing Co., Colville, WA, as required under the Model Toxics Control Act. This site's hazard ranking, an estimation of the potential threat to human health and/or the environment relative to all other Washington state sites assessed at this time, has been determined to be a 5 where 1 represents the highest relative risk and 5 the lowest.

For your information, Ecology will be publishing the ranking of this and other recently assessed/ranked sites in the August 26, 2003 Special Issue of the Site Register. The site hazard ranking will be used in conjunction with other site-specific considerations in determining Ecology's priority for future actions.

Please contact me at (360) 407-7195 if you have any questions relating to this SHA and the scoring/ranking of your site. For inquiries regarding any further activities at your site now that it will be on Ecology's Hazardous Sites List, please call Patti Carter at (509) 329-3522.

Sincerely,

Michael J. Spencer
Toxics Cleanup Program
Site Hazard Assessment/Washington Ranking Method

MJS:ms
Enclosure

→ Cc : Patti Carter, Ecology Eastern Regional Office Toxics Cleanup Program



Stevens Co.
Carlson Distributing Co.
- 1 -

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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

April 9, 2003

Mr. Boyd Carlson
Carlson Distributing Company
P.O. Box 310
Colville, WA 99114

Subject: Site Hazard Assessment – Carlson Distributing Co.
Ecology Facility Site ID: 768

Dear Mr. Carlson:

The Department of Ecology (Ecology) will conduct a site hazard assessment (SHA) of Carlson Distributing Co., Colville Branch Road, Colville, WA 99114, under the Model Toxics Control Act (MTCA), Chapter 173-340-320 WAC. This site has been on Ecology's Confirmed and Suspected Contaminated Sites List, awaiting assessment, since April 10, 1995. I will be the Ecology lead for this assessment.

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 Integrated Site Information System (ISIS) 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 fieldwork, the following information will be considered in scoring this site:

- Ecology Eastern Regional Office Site Files
- Northeast Tri-County Health District Site Files

Boyd Carlson
April 9, 2003
Page 2

Following review of current Ecology regional office files, the next step in this assessment process will be to determine if any new site-specific information is able to be provided by the site owner/operator.

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, as well as a copy of the ISIS Site Data Summary Sheet for this site. If you have any questions please call me at (360) 407-7195.

Sincerely,



Michael J. Spencer
Site Hazard Assessments
Toxics Cleanup Program

MJS:ms
Enclosures (4)

cc: Patti Carter, Toxics Cleanup Program, Ecology Eastern Regional Office

Sec 8/T35N/R39E
Ecology Facility Site ID: 768

Site scored/ranked for 09/02/03 update

and from a company in Spokane, WA, as injected down the four remaining wells, with the assurance that this would take care of any remaining petroleum contamination.

He made available analytical reports for ground water samples collected during November 1994 and December 1995 from one of the wells where shallow ground water was encountered. The contaminant analyzed for was reported as "FOG" (fuel oil/gas?), and the results were expressed in mg/l, or ppm (444 ppm in November 1994 down to 75 ppm in December 1995). The current MTCA Method A cleanup level for TPH-diesel in ground water is 500 ug/l (0.5 ppm).

An attempt was made to contact the analytical laboratory responsible for reporting the "FOG" results (Treclen Laboratories, N. 1403 Greene Street, Spokane, WA) to find out exactly what it represented, and at exactly what concentration (mg/l or ug/l?) but to no avail, as the telephone number was 'disconnected', and the business was no longer listed in the telephone book.

It was later explained to Mr. DeGirolomo that although the earlier analytical results for the soil samples (from November 1993) were below the current MTCA Method A cleanup level of 2000 ppm for TPH-diesel, a recommendation of no further action for this site could not be made under this SHA due to the documentation on two occasions of high petroleum concentrations in the on-site shallow ground water, likely in the diesel range, very significantly in excess of MTCA allowable limits (if results really are in mg/l).

The site will be scored and ranked under the Washington Ranking Method (WARM) based on subsurface-only contamination of soil/groundwater by diesel.

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) overriding a decision of no further action for the site):

Due to the significant contamination documented on-site being primarily subsurface, the surface water and air routes are not applicable for WARM scoring for this site, thus only the ground water route will be scored.

ROUTE SCORES:

Surface Water/Human Health:	<u>NS*</u>
Air/Human Health:	<u>NS</u>
Ground Water/Human Health:	<u>16.9</u>

Surface Water/Environ.:	<u>NS</u>
Air/Environmental:	<u>NS</u>

*Not scored

OVERALL RANK: 5

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE - Not Applicable/Not Scored.

2. AIR ROUTE - Not Applicable/Not Scored.

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Source: 1,2

Diesel oil.

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

Analytical results from soil samples showed concentrations greater than the Method A MTCA cleanup level for diesel at the time the site was listed, with concentrations of "FOG" (fuel oil?) in groundwater samples far exceeding the MTCA Method A concentration of 500 ug/l.

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

Contaminated subsurface soils/groundwater.

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

Spill/discharge caused contaminated subsurface soils/groundwater.

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 -

WORKSHEET 4
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. Diesel oil	160	4	490	5	0.004	3	ND	-	-

*Potency Factor

Source: 1, 2, 5
Highest Value: 5
(Max.=10)

+2 Bonus Points? No
Final Toxicity Value: 5
(max.=12)

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

Cations/Anions: _____ Source: 2, 5 Value: 1
(Max.=3)

Or

Solubility(mg/l): 1) 3.0E+01 mg/l = 1

1.3 Substance Quantity: Unknown, use default value = 1 Source: 6 Value: 1
Explain basis: _____ (Max.=10)

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 1-3, 6 Value: 5
Explain basis: Contaminated soil, capped, score as a (Max.=10)

Landfill: No liner (3); cover, no ponding (0);
No leachate collection system (2)

2.2 Net Precipitation: Nov-April = 10.3"-2.6" = 7.7" Source: 7 Value: 1
(Max.=5)

2.3 Subsurface Hydraulic Conduct.: Sands/gravels/silts Source: 1-3 Value: 3
(Max.=4)

2.4 Vertical Depth to Ground Water: <25' Source: 1-3 Value: 8
(Max.=8)

WORKSHEET 6 (CONTINUED)
GROUND WATER ROUTE

3.0 TARGETS

- 3.1 Ground Water Usage: Unthr. Alts available Source: 8,9 Value: 4
(Max.=10)
- 3.2 Dist. to Nearest Drinking Water Well: 600 - 1300' Source: 8,9 Value: 4
(Max.=5)
- 3.3 Population Served within 2 Miles: $(5234)^{-1/2} = 72$ Source: 8,9 Value: 72
(Max.=100)
- 3.4 Area Irrigated by (Groundwater) Wells
within 2 miles: $0.75(59.52)^{-1/2} = 6$ Source: 8,9 Value: 6
(Max.=50)
- 4.0 RELEASE
Explain basis for scoring a release to ground water: Documented by analytical data/contact with groundwater table Source: 1-3 Value: 5
(Max.=5)

SOURCES USED IN SCORING

1. Release report of petroleum contamination, Robert Hysom, Jr., Environmental Designs, Colville, WA, Mary 5, 1994.
2. Initial Investigation Field Report for Carlson Oil Distributor, Colville, WA, David George, WA Dept. of Ecology, Eastern Regional Office Toxics Cleanup Program, September 27, 1994.
3. Analytical Reports, TrecLen Laboratories, Spokane, WA, January 9, 1995 and January 12, 1996.
4. SHA site visit, June 18, 2003.
5. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January 1992.
6. Washington Department of Ecology, WARM Scoring Manual, April 1992.
7. See attached table identified as Reference 7.
8. Washington Dept. of Health S.A.D.I.E. data printout for Colville Water Dept.
9. Water Rights Application System (WRATS) printout for two-mile radius of site.