

APPENDIX A TERRESTRIAL ECOLOGICAL EVALUATION



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

- 1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
- 2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
- 3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation. You still need to submit your evaluation as part of your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecv.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE				
Please identify below the hazardous waste site for which you are documenting an evaluation.				
Facility/Site Name: Truck City Stop Property				
Facility/Site Address: 3216 Old Highway 99 South, Mount Vernon, WA 98273				
Facility/Site No: 2673; Cleanup Site ID: 5176 VCP Project No.:				

Step 2: IDENTIFY EVALUATOR						
Please identify below the person who conducted the evaluation and their contact information.						
Name: Yen-Vy Van			Title: Senior Hydrogeologist			
Organization: Maul Foster Alongi, Inc.						
Mailing address: 411 First Avenue, Suite 610						
City: Seattle		e: WA	Zip code: 98104			
Phone: 206-858-7618 Fax:		E-mail: yvand	@maulfoster.com			

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS A. Exclusion from further evaluation. 1. Does the Site qualify for an exclusion from further evaluation? X Yes If you answered "YES," then answer Question 2. No or If you answered "NO" or "UKNOWN," then skip to Step 3B of this form. Unknown 2. What is the basis for the exclusion? Check all that apply. Then skip to Step 4 of this form. Point of Compliance: WAC 173-340-7491(1)(a) X All soil contamination is, or will be,* at least 15 feet below the surface. All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination. Barriers to Exposure: WAC 173-340-7491(1)(b) All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination. Undeveloped Land: WAC 173-340-7491(1)(c) There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride. toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene. For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site. Background Concentrations: WAC 173-340-7491(1)(d) Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709. * An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology. * "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil. "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

В.	3. Simplified evaluation.						
1.	Does the Site qualify for a simplified evaluation?						
	X Y	es If you answered "YES," then answer Question 2 below.					
	☐ N Unkn	o or own If you answered " NO " or " UNKNOWN, " then skip to Step 3C of this form.					
2.	Did you co	nduct a simplified evaluation?					
	XY	es If you answered "YES," then answer Question 3 below.					
	□ N	o If you answered "NO," then skip to Step 3C of this form.					
3.	Was furthe	er evaluation necessary?					
		es If you answered "YES," then answer Question 4 below.					
	Ŋ N	o If you answered "NO," then answer Question 5 below.					
4.	If further e	valuation was necessary, what did you do?					
		Used the concentrations listed in Table 749-2 as cleanup levels. If so, then skip to Step 4 of this form.					
		Conducted a site-specific evaluation. If so, then skip to Step 3C of this form.					
5.	If no furthe	er evaluation was necessary, what was the reason? Check all that apply. Then skip f this form.					
	Exposure A	Analysis: WAC 173-340-7492(2)(a)					
		Area of soil contamination at the Site is not more than 350 square feet.					
		Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.					
	Pathway Analysis: WAC 173-340-7492(2)(b)						
		No potential exposure pathways from soil contamination to ecological receptors.					
	Contaminant Analysis: WAC 173-340-7492(2)(c)						
	X	No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.					
	[X]	No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.					
	X	No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.					
	$\sqrt{\mathbf{x}}$	No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.					

C.	the problem	, and (2) select	A site-specific evaluation process consists of two parts: (1) formulating ing the methods for addressing the identified problem. Both steps ad approval by Ecology. See WAC 173-340-7493(1)(c).		
1.	Was there	a problem? Se	ee WAC 173-340-7493(2).		
	Yes If you answered "YES," then answer Question 2 below.				
	X No	If you ans below:	wered "NO," then identify the reason here and then skip to Question 5		
			No issues were identified during the problem formulation step.		
			While issues were identified, those issues were addressed by the cleanup actions for protecting human health.		
2.	What did ye	ou do to resolv	e the problem? See WAC 173-340-7493(3).		
		Used the conc Question 5 be	entrations listed in Table 749-3 as cleanup levels. If so, then skip to elow.		
			ore of the methods listed in WAC 173-340-7493(3) to evaluate and entified problem. <i>If so, then answer Questions 3 and 4 below.</i>		
3.	3. If you conducted further site-specific evaluations, what methods did you use? Check all that apply. See WAC 173-340-7493(3).				
		Literature surv	eys.		
		Soil bioassays			
		Wildlife exposu	ure model.		
		Biomarkers.			
		Site-specific fie	eld studies.		
		Weight of evide	ence.		
		Other methods	approved by Ecology. If so, please specify:		
4.	What was t	he result of the	ose evaluations?		
		Confirmed the	re was no problem.		
		Confirmed their	re was a problem and established site-specific cleanup levels.		
5.	5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?				
	☐ Ye	es If so, plea	se identify the Ecology staff who approved those steps:		
	□ No				

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: Sara Nied 3190 160 th Ave. SE Bellevue, WA 98008-5452	Central Region: Attn: Mark Dunbar 15 W. Yakima Ave., Suite 200 Yakima, WA 98902
Southwest Region: Attn: Scott Rose P.O. Box 47775	Eastern Region: Attn: Patti Carter N. 4601 Monroe
Olympia, WA 98504-7775	Spokane WA 99205-1295