Alaska Department of Environmental Conservation Underground Storage Tank Program

Preliminary Risk Evaluation Form

Purpose of this form

This form is used only for sites with Underground Storage Tanks that are regulated by AS 46.03.450 (12). The form is based on the "Alaska Hazard Ranking Model" which the Department uses to prioritize it's investigation and cleanup efforts. It is used to collect preliminary information on the relative risk a contaminated site may pose to human health and the environment.

Explanation of how sites are scored

The box below explains how a site will be scored after the Department receives this form. Note that although the form contains values for "unknown" elements, a minimum combination of the following data elements are needed for adequately distinguishing between sites: toxicity, quantity, air exposure, ground water exposure, and surface water exposure. Also note that scores cannot be calculated in the following instances:

- 1. If too many data elements are unknown; or,
- 2. If both the toxicity and the quantity data elements are unknown; or,
- 3. If all exposure elements are unknown.

Scoring procedure for risk evaluation form

The Preliminary Pisk Evaluation Form contains 14 different questions. Each question deals with a particular "data element" (shown below) that is considered in scoring the site. The alternatives to each question are assigned a value and then these values are entered into the formulas below to calculate the final score.

Question #	Data Element
1.	Toxicity
2.	Quantity
3.	Release Information
4,	Site Access
5.	Air Exposure
6a.	Population Density (within one mile)
6b.	Population Proximity (500 feet)
7.	Ground Water Usage
8.	Ground Water Exposure
9.	Surface Water Use
10.	Surface Water Exposure
11.	Surface Water Environment
12.	Environmental/Recreational Area
13.	Observed Environmental Impact
14.	Multiple Sources or Contaminants

Scoring

Ranking Score = Substance Factor x (Human Target + Environmental Target)

Substance Factor = $(#1) \times (#2) \times (#3)$

Human Target = (# 4 + Air Target Population + Adj. Ground water Use + Adj. Surface Water Use)

Air Target Population = $(#5) \times (#6a) \times #(6b)$ Adj. Ground Water Use = $(#7) \times (#8) \times (#6a)$

Adj. Surface Water Use = (#9) x (#10) x (#6a)

Environmental Target = (#11) + (#12)

or, if (#11) + (#12) = 0, use value in (#13)

If there are multiple contaminants (answer is "yes" to #14), multiply Ranking Score by 1.2.

(Numbers in parentheses refer to the 14 "data elements" identified above.)

Return completed form to :

ADEC Underground Storage Tank Financial Assistance Program

555 Cordova Street, Anchorage, AK 99501 Phone (907) 269-7504 FAX (907) 269-7507

ADEC Underground Storage Tank Program

Preliminary Risk Evaluation Form

Please type, or print in ink, all the requested information on this page.

	· · · · · · · · · · · · · · · · · · ·	to Sec. Sec.	Name (man)	
General Information				
Name of Site:	·	· · · · · · · · · · · · · · · · · · ·	Angaligina paramatan	
Facility ID Number:				
Tax ID Number:				
Tax to Runiber.	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
,				
Applicant:		Facility:		
Name:		Name:		
Address:		Address:	- Indiana and the second secon	
	(A)			
Phone:		Phone:		
Owner of Tank (If not same	as applicant):	Owner of Land	l (If not same as appli	cant):
Name:				
Address:		Address:		
Phone:		Phone:		
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Please provide any additional information that may assist in processing the Preliminary Risk Evaluation Form (i.e. directions to the site if it does not have a physical address, uncertainties over how to answer particular questions, etc.). Please use additional pages, if necessary.

ADEC Underground Storage Tank Program

Preliminary Risk Evaluation Form (Values for scoring are in parentheses following each option) On pages 3-6, please fill in the letter of the correct choice in the box preceding each question.

Use Only			_		
1			1.	W	hat type of product was released or detected?
		· .	- J		more than one substance is present, use the one that will score the highest sub-
7 45		* .		a.	organic pesticides. (4)
			:	b. c.	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
				d.	Diesel fuel, jet fuels. (JP-4, JP-5), kerosene, non-chlorinated phenols, non-chlorinated solvents, crude oil. (2)
				e.	
*			٦		
2	,		2.	W	hat quantity of product was released?
			 - :	a.	< 10 drums or 549 drum or tank gallons, < 500 spilled gallon, < 100 cubic yards or tons, < 100 ft 2 . (1)
in the second				· Ь.	• • • • • • • • • • • • • • • • • • • •
			: -	Ċ.	Unknown quantity. (2.1)
				d.	100 - 999 drums or 5,500 - 54,999 drum or tank gallons, 10,000 - 39,999 spilled gallons, 500 - 1,999 cubic yards or tons, 10,000 - 43,559 ft ² . (3)
				e.	$^{>}/= 1,000$ drums or $^{>}/= 50,000$ drum or tank gallons, $^{>}/= 40,000$ spilled gallons, $^{>}/= 2,000$ cubic yards or tons, $^{>}/= 1$ acre (43,560 ft ²). (4)
		•		No	ote: < means "less than" (i.e. 1 <10, or one is less than ten)
					> means "greater than" (i.e. 10 >1, or 10 is greater than one) >/ = means "greater than or equal to" (i.e. 11 ^{>} / = 10, or 11 is greater than or equal to 10)
			1		Squal to 10/
3			3.	Ha	s a release at the site been documented?
				a.	Documented releases indicate contamination due to disposal practices or failure of containment at the site, regardless of quantity. (1)
		•		b.	Containment management practices exist which may pose a significant
				Ċ.	threat, but there is no documentation of a release. (.5) An unknown potential for site release exists, or, off-site contamination is not
					clearly linked to the site. (.2)
				d.	
	-	<u> </u>	1		
			4.	Но	w controlled is access to this site?
				a.	A school is present within 500 feet, and, site access is partially controlled or uncontrolled, and, wastes are present at the surface. (3)
				, b.	Access to the site is uncontrolled, and, wastes are present at the surface. (2)
				c.	Access to the site is partially controlled, or, surrounding features restrict site access, or, contaminated soil is stockpiled (presumed covered) on site. (1)
		:		d.	There is an underground tank, or, waste is not present at the surface, or, access to the site is completely controlled. (0)
					V-1

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Dee Only		
5.		Trace of the first success of the contract of
	5.	Have contaminants been released to the atmosphere?
2		
		a. A documented release of particulate or gases from the site has been
		confirmed. (1)
		b. A release may have occurred at the site based on existing physical evidence,
		including uncovered stockpiles of excavated soils. (.2)
		c. No significant air releases have been identified at the site and waste man-
		agement practices indicate no substantial possibility. (.1)
~		
loar	6a.	What is the predominant population density within 1 mile radius?
14.7 \$ 5. 50		
10 TE 8 BAY 1877	<u> </u>	a. Urban residential use (in or adjacent to population > 35,000, single family lots
1985 1985 1981		
	. :	< 1/4 acre). (10)
		b. Suburban residential areas (lots 1/4 - 1 acre), or, cities with population
Hazinesi		between 2,000-35,000, or, industrial/commercial areas. (8)
10.27.27.66.33.0	······································	c. Villages (< 2,000 people), or, low density housing (one unit per acre), or, low
		density commercial use, or, few permanent residents, but intensive seasonal
		use. (5)
		· ·
		· · · · · · · · · · · · · · · · · · ·
		cial/industrial areas within 1 mile. (3)
120.100.000	•	e. Isolated areas with no population present. (0)
***	4 - 1 to 4	
6b	66.	What is the predominant population in proximity to the site (within 500 feet)?
		(Also count workers at site, residents of military barracks or lodges, and students at a
	h-management and	
	+ :	school.)
The second second		
		a. Occupied buildings or dwellings present within 500 feet of site. (1)
Vite of a Vite and Australia		b. No occupied buildings within 500 feet, (0.5)
7	7.	What is the ground water usage within 1 mile?
4 F 3 V (C T Y)		What is the ground water usage within Finne:
1 3 5 5 5 5 5 5		
		a. Within a 1 mile radius, a majority of the population is served by municipal
		wells or other public water supply wells serving > 25 individuals. (1)
10210076.72		b. Within a 1 mile radius, a majority of the population is served primarily by
\$700 TO \$100 SEC.		community or private wells. (.8)
		c. A majority of the population is served by drinking water supplies originating
10000		greater than a mile from the site, but other public water supply wells serving
		more than 25 individuals are located within one mile of the site, (.6)
		d. A majority of the population is served by drinking water supplies that are > 1
		mile from the site, or, there are no known wells within one mile, but the
		possibility of use of ground water as a source of drinking water exists. (.4)
		e. Ground water is not available for drinking water or is not used. (.1)
Paragraphic line		and a second sec
	-	
8		the shows have any decreased by the second side of
3.50 mm 15.00	8.	Has there been any documentation of ground water contamination?
		a. Documented contamination of a drinking water supply at the tap exceeds the
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		MCL. (4)
No anima patricitar		b. Documented contamination of a drinking water supply at the tap, does not
100000000000000000000000000000000000000		exceed the MCL. (2)
Potential		
Fragress (#H		the tap has not been documented. (1)
12864455		d. Ground water contamination is unknown; either at the tap or at the ground
		water source. (.4)
		e. Ground water is documented to be free of contamination, or, waste and site
		characteristics indicate a low potential for contamination. (0)

Pre-Risk Form (page 4)

<u> </u>	· · · · · · · · · · · · · · · · · · ·		
Eor State			
Use Only.			
9	9. V	What is the primary use of surface water with	hin 1 mile?
	a	1 mile of site. Assign this value if surfa- mile of the site have been abandoned	ce drinking water supplies within one due to site contamination. (1)
100		mile, is unknown, but likely. (.5)	
			nking water is unknown but is vater as a drinking water source
to.			
	10. F	as surface water been contaminated by a re	elease from the site?
	a	exceeds the MCL due to releases of ha	zardous material from the site. (4)
		Surface water contamination has been but actual contamination of drinking wa documented. (1)	
	d	. ,	m. (.4)
100000000000000000000000000000000000000	e		
		documented to be free of contamination	
1.00		indicate a low potential for contamination	
44			
	11. V	hat type of surface water environment exis	ts within 1/4 mile of the site?
		 Fresh or marine water or wetlands are of death or stress to fish or wildlife exist 	
		result of the presence of hazardous sub	ostances. (5)
CALL PROPERTY.	ь		
		dence of death or stress to plants exists	s, which is strongly suspected as a
And Employed		result of the presence of hazardous sub	
	i 1945 i 1966 i 196		
	d d	there is no evidence of death or stress. No fresh or marine waters or wetlands a	
	<u> </u>	,	
12.		ALL MARK For the last 1975 of the second	
2 25 74 75 76 75	12. Is	the site in an environmental/recreation are	37
	a	The site is in an environmental/recreation or stress to fish or wildlife, which is strong	
		presence of hazardous substances. (5)	
	b .	, ,	
		stress to plants, which is strongly susp	
		hazardous substances. (3)	
	c.	The site is in an environmental/recreation death or stress to fish, wildlife, or plants	
	d.	the state of the s	



If your answer to both questions 11 and 12 was "d", and, there are documented impacts to the environment which are not within 1/4 mile of surface waters or located within 1/4 mile of an environmental or recreation area, then proceed to questions number 13. Otherwise, skip 13, and proceed to question 14.

- 13. What are the observed environmental impacts to surface waters not within 1/4 mile, or which are not within environmental/recreational areas?
 - a. There is evidence of death or stress to fish or wildlife, which is strongly suspected as a result of the presence of hazardous substances. (5)
 - b. There is evidence of death or stress to plant life, which is strongly suspected as a result of the presence of hazardous substances. (3)
 - c. There is no evidence of death or stress to wildlife or plant life. (0)

14. Are there multiple sources of contamination present at the site? Yes or No (A yes answer will result in the final score being multiplied by 1.2, otherwise there will be no adjustment to the final score.)

