

PREscore 1.0 - PRESCORE.TCL File 12/23/91
HRS DOCUMENTATION RECORD
St. Lawrence Island, NE Cape WACS Site - 05/07/92

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1. Site Name: St. Lawrence Island, NE Cape WACS Site
(as entered in CERCLIS)
2. Site CERCLIS Number:
3. Site Reviewer: Scott DeFalco
4. Date: April 15, 1992
5. Site Location: St. Lawrence Island, Alaska
(City/County,State)
6. Congressional District:
7. Site Coordinates: Multiple

Latitude: 62 52'

Longitude: 168 30'

	Score
Ground Water Migration Pathway Score (Sgw)	0.00
Surface Water Migration Pathway Score (Ssw)	47.40
Soil Exposure Pathway Score (Ss)	16.00
Air Migration Pathway Score (Sa)	0.07
Site Score	25.02

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

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WASTE QUANTITY
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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Tram/Lower Terminal

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

WASTE QUANTITY

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Tram/Lower Terminal
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Volume (yd3) Source Area (ft2)	0.00 410.00
e. Source Volume/Area Value	1.21E-02
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.21E-02

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Barium	< 2	NO	1.5E-01	ppm
Benzoic acid	< 2	YES	5.0E+00	ppm
Bis (2-ethylhexyl) phthalate	< 2	NO	1.0E-01	ppm
Chloro-3-methylphenol, 4-	< 2	YES	1.0E-02	ppm
Chloroform	< 2	YES	6.6E-02	ppm
DDT	< 2	YES	1.4E-02	ppm
Di-n-butyl phthalate	< 2	NO	1.0E+00	ppm
Endrin aldehyde	< 2	YES	1.2E-02	ppm
Lead	< 2	NO	1.2E-01	ppm
Mercury	< 2	NO	4.0E-04	ppm
Methylene chloride	< 2	YES	1.0E+00	ppm
PCBs	< 2	YES	1.0E+00	ppm

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: White Alice Area

a. Wastestream ID	Asbestoes
b. Hazardous Constituent Quantity (C) (lbs.)	3000.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	20000.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	4.00E+00

Wastestream Constituent
Hazardous Substances

Concent. Units Liquid Qualifier

Asbestos

1.5E+01

%

NO

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	White Alice Area	
b. Source Type	Contaminated Soil	
c. Secondary Source Type	N.A.	
d. Source Volume (yd3) Source Area (ft2)	0.00	500.00
e. Source Volume/Area Value	1.47E-02	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	3.00E+03	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	4.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	3.00E+03	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Aldrin	< 2	YES	1.0E-01	ppm
Heptachlor	< 2	YES	1.0E-01	ppm
Methylene chloride	< 2	YES	9.0E-01	ppm
PCBs	< 2	YES	1.0E+01	ppm

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Upper Camp

a. Wastestream ID	asbestos
b. Hazardous Constituent Quantity (C) (lbs.)	1500.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	10000.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	2.00E+00

Wastestream Constituent
Hazardous Substances

Concent. Units Liquid Qualifier

Asbestos	1.5E+01	%	NO
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a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Upper Camp
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Volume (yd3) Source Area (ft2)	0.00 81190.00
e. Source Volume/Area Value	2.39E+00
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	1.50E+03
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	2.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.50E+03

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Anthracene	< 2	YES	2.0E-01	ppm
Barium	< 2	NO	2.5E-01	ppm
Benzene	< 2	YES	5.6E-02	ppm
Benzoic acid	< 2	YES	1.0E+01	ppm
Bis (2-ethylhexyl) phthalate	< 2	NO	1.9E+01	ppm
DDT	< 2	YES	1.0E+00	ppm
Diethyl phthalate	< 2	NO	3.4E-01	ppm
Dioxane, 1,4-	< 2	NO	8.0E-03	ppm
Ethylene glycol	< 2	YES	1.0E+00	ppm
Furan	< 2	NO	9.0E-04	ppm
Lead	< 2	NO	0.0E+00	ppm
Mercury	< 2	NO	2.5E-04	ppm
Methylene chloride	< 2	YES	2.7E+00	ppm
PCBs	< 2	YES	1.0E-01	ppm
Phenanthrene	< 2	YES	2.0E-01	ppm
Phenol	< 2	YES	4.0E-01	ppm
Toluene	< 2	YES	9.0E-02	ppm

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE:

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	
b. Source Type	Drums
c. Secondary Source Type	N.A.
d. Source Volume (yd3) Source Area (ft2)	0.00 0.00
e. Source Volume/Area Value	0.00E+00
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	0.00E+00

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3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	Tram/Lower Terminal	GW-SW-SE-A	1.21E-02	0.00E+00	1.21E-02
2	White Alice Area	GW-SW-SE-A	1.47E-02	3.00E+03	3.00E+03
3	Upper Camp	GW-SW-SE-A	2.39E+00	1.50E+03	1.50E+03
4			0.00E+00	0.00E+00	0.00E+00

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4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+03	100	18
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	100	32
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	100	320
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	100	320
SW: GW to SW, DW	Tox./Persistence	1.00E+02	100	10
SW: GW to SW, HFC	Tox./Persis./Bioacc.	2.00E+05	100	56
SW: GW to SW, Env	Etox./Persis./Bioacc.	2.00E+08	100	320
Soil Exposure: Resident	Toxicity	1.00E+04	100	32
Soil Exposure: Nearby	Toxicity	1.00E+04	100	32
Air	Toxicity/Mobility	2.00E+03	100	18

* Hazardous Waste Quantity Factor Values

** Waste Characteristics Factor Category Values

Note: SW = Surface Water
 GW = Ground Water
 DW = Drinking Water Threat
 HFC = Human Food Chain Threat
 Env = Environmental Threat

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GROUND WATER MIGRATION PATHWAY SCORESHEET
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GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: shallow		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	3
2d. Travel Time	35	25
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	310
3. Likelihood of Release	550	310
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+03
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	18
Targets		
7. Nearest Well	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	0.00E+00
12. Targets (including overlaying aquifers)	**	0.00E+00
13. Aquifer Score	100	0.00
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	0
2c. Distance to Surface Water	25	20
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	200
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	7
3c. Potential to Release by Flood (lines 3a x 3b)	500	70
4. Potential to Release (lines 2d+3c)	500	270
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	100
8. Waste Characteristics	100	32
Targets		
9. Nearest Intake	50	2.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	2.00E-01
10d. Population (lines 10a+10b+10c)	**	2.00E-01
11. Resources	5	0.00E+00
12. Targets (lines 9+10d+11)	**	2.20E+00
13. DRINKING WATER THREAT SCORE	100	0.47

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	1000	320
Targets		
18. Food Chain Individual	50	2.00E+01
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	1.55E-04
19d. Population (lines 19a+19b+19c)	**	1.55E-04
20. Targets (lines 18+19d)	**	2.00E+01
21. HUMAN FOOD CHAIN THREAT SCORE	100	42.67

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	100
25. Waste Characteristics	1000	320
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	2.00E+00
26d. Sensitive Environments (lines 26a+26b+26c)	**	2.00E+00
27. Targets (line 26d)	**	2.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	4.27
29. WATERSHED SCORE	100	47.40
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	47.40

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 SOIL EXPOSURE PATHWAY SCORESHEET
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SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	100
4. Waste Characteristics	100	32
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	7.50E+01
10. Targets (lines 5+6c+7+8+9)	**	7.50E+01
11. RESIDENT POPULATION THREAT SCORE	**	1.32E+06

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

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 SOIL EXPOSURE PATHWAY SCORESHEET
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SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	2.50E+01
13. Area of Contamination	100	2.00E+01
14. Likelihood of Exposure	500	5.00E+00
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	100	32
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	0.00E+00
20. Targets (lines 18+19)	**	0.00E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	16.00

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

AIR PATHWAY SCORESHEET

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AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	360
2b. Particulate Potential to Release	500	330
2c. Potential to Release	500	360
3. Likelihood of Release	550	360
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+03
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	18
Targets		
7. Nearest Individual	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	4.00E-03
8d. Population (lines 8a+8b+8c)	**	4.00E-03
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	8.94E-01
10c. Sens. Environments(lines 10a+10b)	***	8.94E-01
11. Targets (lines 7+8d+9+10c)	**	8.98E-01
AIR MIGRATION PATHWAY SCORE (Sa)	100	7.05E-02

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.