



**HARTCROWSER**

*Earth and Environmental Technologies*

*Hart Crowser, Inc.  
2550 Denali Street, Suite 705  
Anchorage, Alaska 99503-2737  
Fax 907.276.2104  
Tel 907.276.7475*

A-8474-01

**RECEIVED**

**NOV 18 1999**

November 10, 1999

**DEPT. OF ENVIRONMENTAL CONSERVATION**

Mr. Ben Moyer  
Frosty Fuels, Inc.  
4700 West International Airport Road  
Anchorage, Alaska 99502

Re: Groundwater Quality Sampling Results  
September 23, 1999  
Cold Bay Tank Farm

Dear Mr. Moyer:

This letter report presents the groundwater elevations, floating hydrocarbon thickness measurements, and the groundwater quality sampling results for the above-referenced project. The sampling was performed to monitor groundwater quality along the periphery of a zone of free-phase liquid hydrocarbon present in the subsurface.

## **WORK PERFORMED**

A Hart Crowser representative was present at the Frosty Fuels, Inc. (FFI), Cold Bay tank farm on September 23, 1999. Groundwater depths were measured in monitoring wells MW-3, MW-3A, MW-4, MW-5, MW-6, and MW-7, and recovery well RW-2 (Figure 1 and Appendix A - Field Methods). The wells were then purged and sampled, except MW-4, which did not contain groundwater. A duplicate sample was collected from RW-2 and was labeled RW-22. No sheen or odor was observed in the purge water of the wells sampled except for RW-2. Laboratory samples were submitted to CT&E Environmental Services, Inc. (CT&E), of Anchorage, Alaska, for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by Alaska Method EPA 8021b.



Mr. Ben Moyer  
November 10, 1999

A-8474-01  
Page 2

Floating hydrocarbon thickness and hydrocarbon recovery measurements were provided by FFI.

## **GROUNDWATER TABLE CONDITIONS**

Groundwater elevations for wells not containing floating hydrocarbons are presented in Table 1. Groundwater was not observed in MW-3A, MW-5, or MW-7 in May 1999, but was present during this sampling event. MW-4, which contained water in May 1999, was dry during this sampling event. The water levels in RW-2, MW-3, and MW-6 are lower than in May 1999, in general water levels were 2 to 8 feet lower than in November 1998. Figure 1 presents the inferred groundwater elevation contours suggesting a groundwater flow direction to the southeast. This water table configuration is generally consistent with previous observations for the site. The calculated average hydraulic gradient of 0.007 feet/foot is lower than observed during sampling events prior to 1999.

## **FLOATING HYDROCARBON THICKNESSES**

Floating hydrocarbon thickness was measured by FFI personnel on June 23, July 14, and 28; August 5, 24, and 27; September 24; and October 1 and 8, 1999, in monitoring wells MW-1, MW-1A, and MW-2, and in recovery wells RW-1, RW-1A, and RW3. Selected floating hydrocarbons thickness data since April 1993 is presented in Table 2.

Floating hydrocarbon recovery was accomplished over the monitoring period using product recovery pumps and by hand pumping by FFI personnel. Table 3 presents the volume of product recovered from the recovery wells. Between mid-May and mid-October 1999, approximately 35 gallons of product were recovered. Approximately 140 gallons have been recovered since September 1998.

## **LABORATORY RESULTS**

Analytical results for groundwater samples collected from the monitoring wells are summarized in Tables 4a and 4b and laboratory reports are presented in Appendix B. Benzene was detected in MW-3A at 0.0061 mg/L but no other BTEX constituents were detected in the sample. Benzene was not detected in any of the other monitoring wells sampled. Other BTEX constituents were observed in the sample from RW-2 but were not observed in samples collected from the other monitoring wells.



Mr. Ben Moyer  
November 10, 1999

A-8474-01  
Page 3

## INFORMATION LIMITATIONS

Work for this project was performed, and this letter report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same and similar localities, at the time the work was performed. It is intended for the exclusive use of FFI. This letter report is not meant to represent a legal opinion, and no other warranty, express or implied, is made.

We trust this letter report meets your needs. Any questions regarding the field work and this letter report, the presentation of the information, and the interpretation of the data are welcome and should be referred to Nino Muniz at (907) 276-7475.

Sincerely,

**HART CROWSER, INC.**

**HERMINIO R. MUNIZ**  
Associate Hydrogeologist

hrm/tlm

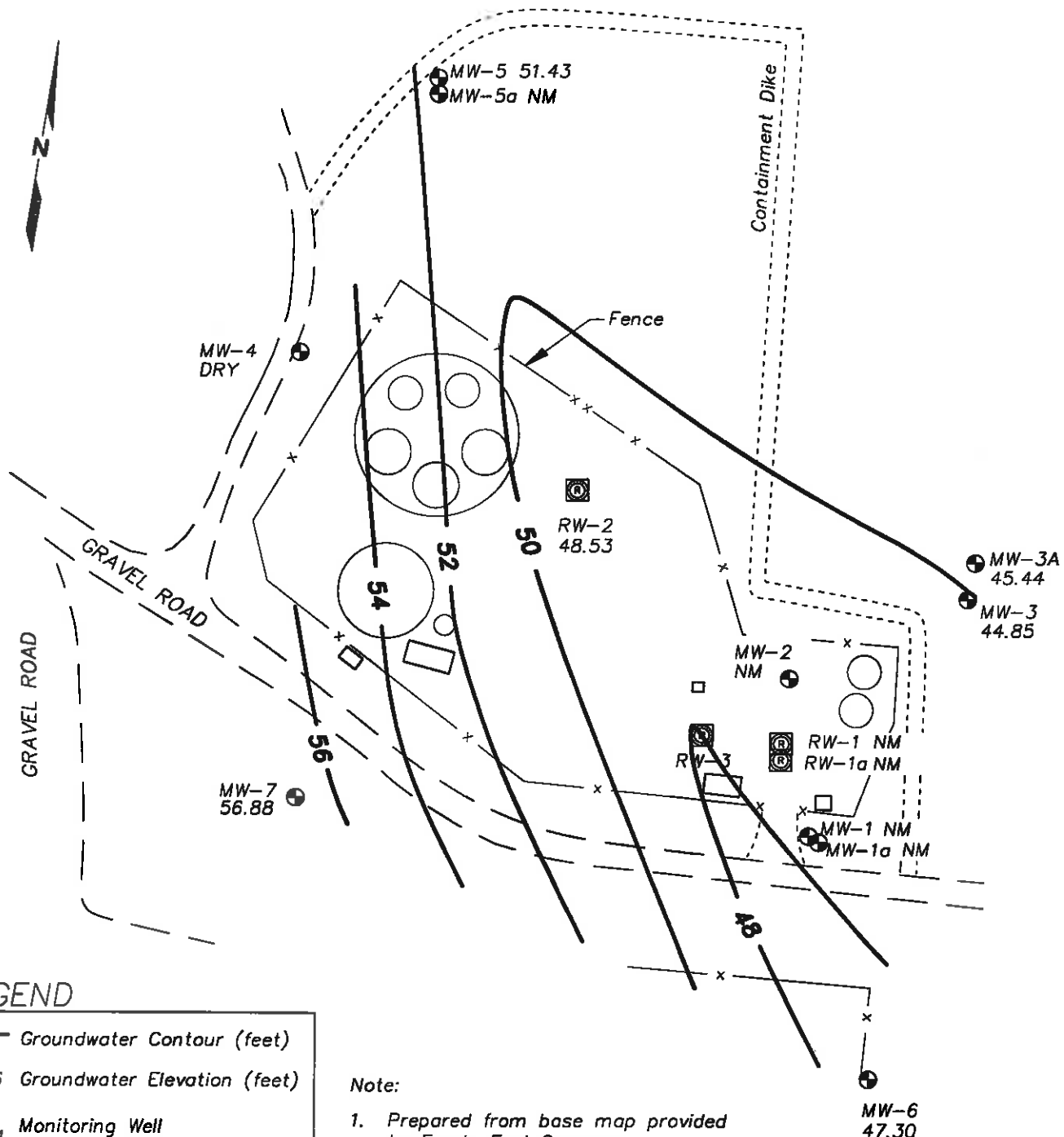
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Attachments:	Table 1	Groundwater Table Elevations for Wells Without Floating Hydrocarbons
	Table 2	Depth to Product and Product Thickness
	Table 3	Floating Hydrocarbon Recovery
	Table 4a	Groundwater Quality Data for Benzene - May 1995 through September 1999
	Table 4b	Groundwater Quality Data for Total BTEX - May 1995 through September 1999
	Figure 1	Groundwater Elevations on 9/23/99
	Appendix A	Field Methods
	Appendix B	Laboratory Reports

# Groundwater Elevations on 9/23/99

## FFI Cold Bay Tank Farm

### Cold Bay, Alaska

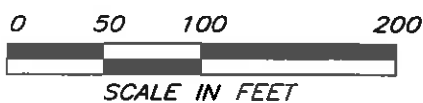


#### LEGEND

-40-	Groundwater Contour (feet)
60.26	Groundwater Elevation (feet)
⊕	Monitoring Well
MW-4	
⊗	Recovery Well
RW-2	
□	Utility Structure
○	Fuel Storage Tank
NM	Not Measured

#### Note:

1. Prepared from base map provided by Frosty Fuel Company.
2. MW-3A measurement not used for groundwater contouring.



**HARTCROWSER**  
A-8474-01 11/99  
Figure 1

**TABLE 1 - GROUNDWATER TABLE ELEVATIONS FOR WELLS WITHOUT FLOATING HYDROCARBONS  
FBI COLD BAY TANK FARM  
COLD BAY, ALASKA**

Date	MW-3 Water Table Elevation (1) (feet)	MW-3A Water Table Elevation (feet)	MW-4 Water Table Elevation (feet)	MW-5 Water Table Elevation (feet)	MW-5A Water Table Elevation (feet)	MW-6 Water Table Elevation (feet)	MW-7 Water Table Elevation (feet)	RW-2 Water Table Elevation (feet)
3/23/92	55.66		51.76					
11/17/92	46.68		48.06					
12/28/92	58.09		51.24					
2/9/93	55.45		55.12					
4/19/93	54.09		52.90	54.03	48.73	49.48	55.14	51.57
4/30/93	56.43		53.49	55.53	52.35	49.42	58.13	52.44
7/27/93	50.43		50.33	51.73	49.06	48.13	52.27	49.31
12/15/93	57.59		56.42	57.49	54.08	51.40	58.38	54.20
2/23/94	56.05		56.00	56.30	53.82	51.85	58.01	53.80
5/10/94	55.39		54.52	55.60	52.91	50.71	55.88	52.90
8/17/94	50.92		50.36	51.47	49.26	48.01	53.45	49.48
12/15/94	56.69		53.17	55.55	51.35	49.51	59.22	52.46
2/8/95	56.11		53.66	55.56	52.67	50.14	52.26	52.41
5/1/95	59.81		56.06	58.95	54.89	49.46	57.60	54.33
8/24/95	48.61		49.00	50.36	48.81	46.90	53.78	48.02
11/29/95	54.31		51.60	53.78	50.61	47.89	53.81	50.52 (4)
5/23/96	51.77		51.77	53.90	51.39	49.23	52.27	51.04
11/20/96	56.58		50.88	53.30	50.43	47.64	58.33	47.85
5/7/96	46.44		Dry	49.02	46.90	45.92	Dry	46.46
12/16/97	54.83	46.56	Dry	52.52	N/M(7)	46.77	54.17	49.51 (5)
6/18/98	55.53	48.32	53.46	55.11	52.25	45.77	57.10	51.96 (6)
11/18/98	56.51	50.15	Dry	57.37	N/M(7)	49.80	60.26	56.26
5/26/99	57.57	Dry	55.72	Dry	N/M(7)	51.10	Dry	53.68
9/23/99	49.85	45.44	Dry	51.43	N/M(7)	47.30	56.88	48.53

Notes:  
 (1) Measuring point elevations were resurveyed on 4/18/93 and 7/28/93 assuming an elevation of 62.89 feet for the measuring point of MW-3.  
 (2) Wells MW-5 to MW-7 and RW-2 were installed between 4/15/93 and 4/17/93.  
 (3) Wells MW-1, MW-1A, MW-2, RW-1, RW-1A, and RW-3 contain floating hydrocarbons; see Table 2.  
 (4) Well RW-2 was discovered to contain floating hydrocarbons on 11/29/95 of 0.12 inches. Assumed a product density of 0.8 in water level calculations.  
 (5) Well RW-2 contain 0.09 feet of floating product on 12/16/97. Assumed a product density of 0.8 in water level calculations.  
 (6) Well RW-2 contained a thin layer of floating product on 6/18/97, but it could not be accurately measured.  
 (7) Not measured, well dropped from sampling program

**TABLE 2 - DEPTH TO PRODUCT AND PRODUCT THICKNESS  
VARIOUS DATES 1992 - 1999  
FFI COLD BAY TANK FARM,  
COLD BAY, ALASKA**

Date	MW-1		MW-1a		MW-2	
	Product Thickness (feet)	Depth to Product (feet)	Product Thickness (feet)	Depth to Product (feet)	Product Thickness (feet)	Depth to Product (feet)
11/17/92	6.30	18.31			0.00	12.26
5/1/93	2.60	14.37	0.03	13.24	0.00	—
6/1/94	7.06	7.59	0.46	11.91	0.04	5.40
11/8/94	7.35	14.26	4.35	13.08	0.17	7.49
2/24/95	8.02	12.49	0.31	12.74	0.01	4.17
5/6/95	1.90	13.38	0.06	12.61	0.01	2.10
8/15/95	1.02	17.52	4.02	16.34	0.50	11.22
11/10/95	0.69	16.74	1.24	14.09	0.11	5.23
1/31/96	5.22	15.87	1.15	14.19	0.18	9.73
4/29/96	2.24	14.18	0.07	12.60	0.00	—
6/4/96	1.47	16.97	0.15	14.29	0.00	—
9/20/96	2.98	16.35	0.01	14.93	0.15	8.21
1/31/97	4.64	16.29	4.14	15.79	0.10	10.11
4/25/97	2.67	20.59	5.45	17.43	0.54	13.26
6/26/97	5.60	18.37	5.68	17.96	1.34	13.66
10/7/97	5.95	16.94	5.74	17.34	1.10	10.05
1/10/98	4.67	16.17	1.18	15.79	0.29	9.87
2/13/98	6.12	16.58	2.80	16.44	1.27	11.61
2/27/98	6.11	17.17	5.84	16.84	1.45	12.65
3/6/98	5.08	16.84	5.51	16.50	1.46	12.49
3/13/98	5.61	16.67	5.60	16.33	0.15	9.19
3/20/98	5.02	17.42	7.30	14.41	0.01	11.01
4/10/98	6.43	15.00	1.15	13.84	0.23	5.28
4/17/98	6.98	14.61	0.14	13.30	0.20	4.49
4/24/98	7.38	14.60	0.61	13.09	0.21	4.13
5/1/98	1.20	15.51	0.34	13.38	0.00	—
5/8/98	3.78	15.12	0.35	13.15	0.00	—
5/22/98	7.56	13.67	0.51	11.59	0.00	—
5/27/98	7.59	13.87	0.58	11.74	0.00	—
7/2/98	7.17	14.90	0.21	13.51	1.00	—
7/10/98	6.96	14.90	0.30	13.93	0.08	7.15
7/16/98	N/A[1]	N/A[1]	0.40	14.39	0.01	7.62
8/13/98	6.29	15.09	0.58	14.41	0.21	8.41
9/2/98	6.44	15.26	7.46	14.46	0.17	8.54
9/10/98	8.51	14.24	0.55	12.47	0.29	7.66
10/14/98	7.73	13.99	0.30	12.75	0.01	4.94
11/19/98	9.97	12.30	0.76	9.87	0.00	—
12/4/98	7.00	12.19	0.92	9.67	0.00	—
2/18/99	3.80	17.57	1.26	11.41	0.00	—
2/25/99	8.65	12.64	0.18	11.91	0.00	—
4/8/99	8.98	12.61	0.00	—	0.00	—
4/16/99	8.54	12.99	0.05	13.49	0.00	—
4/29/99	8.63	12.27	0.05	11.62	0.00	—
5/14/99	7.90	13.08	0.01	11.14	0.00	—
6/5/99	7.62	13.08	0.02	11.70	0.00	—
6/23/99	7.24	13.50	0.01	12.47	0.00	—
7/14/99	6.59	15.10	0.15	13.69	0.00	—
7/28/99	6.54	14.98	0.12	14.59	0.04	8.79
8/24/99	9.70	14.94	1.70	13.99	0.25	9.06
9/24/99	4.90	16.19	1.00	16.09	0.20	9.81
10/8/99	3.22	16.37	1.23	15.54	1.40	10.21
10/15/99	4.45	15.84	1.55	14.44	0.46	9.56

**TABLE 2 - DEPTH TO PRODUCT AND PRODUCT THICKNESS (Continued)**

Date	RW-1		RW-1a		RW-3	
	Product Thickness (feet)	Depth to Product (feet)	Product Thickness (feet)	Depth to Product (feet)	Product Thickness (feet)	Depth to Product (feet)
4/20/93	0.97	11.57	0.00	—	2.40	10.77
5/1/93	11.59	9.67	0.01	8.68	11.19	9.28
6/1/94	0.03	10.74	9.62	—	0.84	11.41
11/8/94	5.90	10.13	9.64	7.84	5.98	10.73
2/24/95	7.34	8.14	3.05	6.49	10.68	8.01
5/6/95	7.57	7.52	3.16	4.37	0.15	13.73
8/15/95	0.29	14.02	0.69	12.80	0.00	—
11/10/95	0.75	11.72	3.51	8.84	2.38	12.64
1/31/96	0.90	10.45	0.73	10.49	5.50	12.58
4/29/96	0.47	10.23	0.72	7.57	4.61	10.42
6/4/96	0.55	11.90	0.85	10.29	0.48	13.05
9/20/96	N/A(1)	N/A(1)	1.52	10.79	N/A(1)	N/A(1)
1/31/97	N/A(1)	N/A(1)	6.26	10.93	N/A(1)	N/A(1)
4/25/97	N/A(1)	N/A(1)	4.44	13.53	N/A(1)	N/A(1)
6/26/97	N/A(1)	N/A(1)	3.70	14.15	N/A(1)	N/A(1)
10/7/97	N/A(1)	N/A(1)	3.80	10.19	N/A(1)	N/A(1)
1/10/98	N/A(1)	N/A(1)	6.68	10.64	N/A(1)	N/A(1)
2/13/98	N/A(1)	N/A(1)	5.24	11.99	N/A(1)	N/A(1)
2/27/98	N/A(1)	N/A(1)	4.61	12.87	N/A(1)	N/A(1)
3/6/98	N/A(1)	N/A(1)	4.51	11.69	N/A(1)	N/A(1)
3/13/98	N/A(1)	N/A(1)	4.48	11.99	N/A(1)	N/A(1)
3/20/98	N/A(1)	N/A(1)	4.40	12.14	N/A(1)	N/A(1)
4/10/98	N/A(1)	N/A(1)	4.35	8.19	N/A(1)	N/A(1)
4/17/98	N/A(1)	N/A(1)	1.96	6.71	N/A(1)	N/A(1)
4/24/98	N/A(1)	N/A(1)	2.29	5.76	N/A(1)	N/A(1)
5/1/98	N/A(1)	N/A(1)	0.12	6.25	N/A(1)	N/A(1)
5/8/98	N/A(1)	N/A(1)	0.30	6.39	N/A(1)	N/A(1)
5/22/98	N/A(1)	N/A(1)	0.93	5.02	N/A(1)	N/A(1)
5/27/98	N/A(1)	N/A(1)	1.09	4.47	N/A(1)	N/A(1)
7/2/98	N/A(1)	N/A(1)	0.05	8.40	N/A(1)	N/A(1)
7/10/98	N/A(1)	N/A(1)	0.15	9.09	N/A(1)	N/A(1)
7/16/98	N/A(1)	N/A(1)	0.15	9.59	N/A(1)	N/A(1)
8/13/98	N/A(1)	N/A(1)	0.16	10.04	N/A(1)	N/A(1)
9/2/98	N/A(1)	N/A(1)	0.19	10.06	N/A(1)	N/A(1)
9/10/98	N/A(1)	N/A(1)	0.27	9.57	N/A(1)	N/A(1)
10/14/98	2.63	10.60	0.56	6.80	3.39	11.59
11/19/98	0.43	8.75	1.04	3.94	N/A(1)	N/A(1)
12/4/98	0.60	8.65	0.51	4.23	N/A(1)	N/A(1)
2/18/99	0.50	9.20	0.44	6.52	N/A(1)	N/A(1)
2/25/99	0.35	9.30	0.33	6.60	N/A(1)	N/A(1)
4/8/99	1.75	10.00	0.25	8.59	N/A(1)	N/A(1)
4/16/99	N/A(1)	N/A(1)	0.41	8.14	N/A(1)	N/A(1)
4/29/99	N/A(1)	N/A(1)	0.01	4.49	N/A(1)	N/A(1)
5/14/99	N/A(1)	N/A(1)	0.01	4.21	N/A(1)	N/A(1)
6/5/99	N/A(1)	N/A(1)	0.01	5.52	N/A(1)	N/A(1)
6/23/99	N/A(1)	N/A(1)	0.01	6.79	N/A(1)	N/A(1)
7/14/99	1.25	12.20	0.05	8.84	N/A(1)	N/A(1)
7/28/99	N/A(1)	N/A(1)	0.07	10.25	4.88	11.45
8/24/99	N/A(1)	N/A(1)	0.01	10.03	4.65	11.68
9/24/99	0.30	13.80	0.10	11.34	3.25	14.13
10/8/99	0.91	13.55	0.66	11.29	3.57	13.76
10/15/99	0.86	13.05	0.20	10.16	5.57	13.33

NOTES:

{1} Unable to measure due to hydrocarbon recovery equipment in well.

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**TABLE 3 - FLOATING HYDROCARBON RECOVERY  
FFI COLD BAY TANK FARM  
COLD BAY, ALASKA**

Date	MW-1			RW-1		RW-3			Total For All Wells
	Inches	Gallons	Total Recovery	Gallons	Total Recovery	Gallons	Total Recovery	Total Recovery	
9/10/98	1.8	2.8	2.8	32.0	32.0				34.8
10/14/98	4.8	7.7	10.5	2.2	34.2	3.8	3.8		48.6
10/29/98	0.0	0.0	10.5	7.2	41.4	0.0	3.8		55.8
11/12/98	2.7	4.2	14.8	0.2	41.7	0.8	4.6		61.1
11/20/98	2.2	3.5	18.3	0.0	41.7	0.0	4.6		64.6
2/25/99	11.1	17.8	36.1	0.0	41.7	0.0	4.6		82.4
4/16/99	4.9	7.8	43.9	0.0	41.7	0.0	4.6		90.2
4/29/99	4.1	6.6	50.5	0.0	41.7	0.0	4.6		96.8
5/14/99	3.1	5.0	55.5	0.0	41.7	0.0	4.6		101.8
5/21/99	1.5	2.4	57.9	0.0	41.7	0.0	4.6		104.2
6/5/99	3.5	5.6	63.5	0.0	41.7	0.0	4.6		109.8
6/23/99	3.0	4.8	68.3	0.0	41.7	0.0	4.6		114.6
8/5/99	0.8	1.2	69.5	0.0	41.7	0.0	4.6		115.8
8/24/99	2.8	4.4	73.9	0.0	41.7	0.0	4.6		120.2
8/25/99	3.5	5.6	79.5	0.0	41.7	0.0	4.6		125.8
8/27/99	0.8	1.2	80.7	0.0	41.7	0.0	4.6		127.0
9/24/99	3.6	5.8	86.5	0.0	41.7	0.0	4.6		132.8
10/1/99	0.6	1.0	87.5	0.0	41.7	0.0	4.6		133.8
10/8/99	1.3	2.0	89.5	0.0	41.7	0.0	4.6		135.8
10/15/99	2.1	3.4	92.9	0.0	41.7	0.0	4.6		139.2

Note:

{1} Recovered product from both RW-1 and RW-3 placed in single drum.

{2} Total recovery from MW-1, RW-1 and RW-3

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TABLE 4a - GROUNDWATER QUALITY DATA FOR BENZENE - MAY 1995 THROUGH SEPTEMBER 1999  
 FFI COLD BAY TANK FARM  
 COLD BAY, ALASKA

MONITORING WELL	Benzene									
	05/01/95	08/24/95	11/29/95	05/23/96	11/25/96	05/07/97	12/16/97	06/18/98	11/18/98	05/26/99
MW-3	(0.0005)U(1)	(0.0005)U	(0.0005)U	(0.0005)U	(0.0005)U	(0.001)U	(0.001)U	(0.001)U	(0.001)U	(0.0005)U
MW-3A	—	—	—	—	—	—	U(0.001)	U(0.001)	<b>0.0054</b>	N/S(2)
MW-4	(0.0005)U	N/S(2)	(0.0005)U	(0.0005)U	(0.0005)U	N/S(2)	N/S(2)	U(0.001)	N/S(2)	(0.0005)U
MW-5	(0.0005)U	U(0.0005)	(0.0005)U	(0.0005)U	(0.0005)U	(0.001)U	(0.001)U	(0.001)U	(0.001)U	N/S(2)
MW-5A	(0.0005)U	U(0.0005)	(0.0005)U	(0.0005)U	(0.0005)U	U(0.001)	N/S(5)	N/S(5)	N/S(5)	N/S(5)
MW-6 Field Duplicate	(0.0005)U	(0.0005)U (0.0005)U	(0.0005)U (0.0005)U	(0.0005)U	(0.0005)U	(0.001)U	(0.001)U (0.001)U	(0.001)U (0.001)U	(0.001)U (0.001)U	(0.0005)U
MW-7	(0.0005)U	(0.0005)U	<b>0.0006</b>	N/S(2)	N/S(2)	N/S(2)	(0.001)U	(0.001)U	(0.001)U	N/S(2)
RW-2 Field Duplicate	<b>0.0022</b> <b>0.0023</b>	<b>0.0011</b>	N/S(3)	(0.0005)U (0.0005)U	(0.0005)U (0.0005)U	(0.002)U (0.002)U	N/S(3)	N/S(3)	(0.001)U	(0.005)U <b>0.0083</b>
Benzene										
MONITORING WELL	09/23/99									
MW-3	(0.0005)U									
MW-3A Field Duplicate	<b>0.0061</b> <b>0.0061</b>									
MW-4	N/S(2)									
MW-5	(0.0005)U									
MW-5A	N/S(5)									
MW-6	(0.0005)U									
MW-7	(0.0005)U									
RW-2	(0.0025)U									

NOTES:  
 [1] (0.005)U = Not Detected(Detection Limit)  
 [2] N/S - Not sampled due to insufficient water in well.  
 [3] N/S - Not sampled due to floating product in well.  
 [4] Laboratory notes that this detection is due to instrument carry over and not actually present in the sample; result is rejected.  
 [5] Well dropped from monitoring program

TABLE 4b - GROUNDWATER QUALITY DATA FOR TOTAL BTEX - MAY 1995 THROUGH SEPTEMBER 1999  
 FH COLD BAY TANK FARM  
 COLD BAY, ALASKA

MONITORING WELL	Total BTEX									
	05/01/95	08/24/95	11/29/95	05/23/96	11/25/96	05/07/97	12/16/97	06/18/98	11/18/98	05/26/99
MW-3	U	U	U	U	U	U	U	U	0.002	U
MW-3A	U	U	U	U	U	U	0.0066	U	0.016	N/S(2)
MW-4	U	N/S(2)	U	U	U	N/S(2)	N/S(2)	U	N/S(2)	U
MW-5	U	U	U	U	U	U	U	U	U	N/S(2)
MW-5A	U	U	U	U	0.004	U	N/S(5)	N/S(5)	N/S(5)	N/S(5)
MW-6	U	U	U	U	U	U	U	U	U	U
Field Duplicate	U	U	U	U	U	U	U	U	U	U
MW-7	U	U	0.004	N/S(2)	N/S(2)	N/S(2)	U	U	0.004	U
RW-2	0.418	0.095	N/S(3)	1.548	0.266	0.2729	N/S(3)	N/S(3)	10.931	0.296
Field Duplicate	0.438			0.709	0.268	0.175				0.389
	Total BTEX									
MONITORING WELL	09/23/99									
MW-3	U									
MW-3A	0.0061									
Field Duplicate	0.0061									
MW-4	N/S(2)									
MW-5	U									
MW-5A	N/S(5)									
MW-6	U									
MW-7	U									
RW-2	0.24									

NOTES:

- (1) U = Not Detected
- (2) N/S - Not sampled due to insufficient water in well.
- (3) N/S - Not sampled due to floating product in well.
- (4) Laboratory notes that this detection is due to instrument carry over and not actually present in the sample; result is rejected.
- (5) Well dropped from monitoring program