APPENDIX G

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/13/2005

SAMPLE ID : MW- 1D

WELL ID : MW- 1D

SAMPLERS : James Castle, Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading		>4314	14:22
Depth of well (from top of casing)	Not Recorded	Time:	14:24
LNAPL Level (from top of casing)	17.20	Time:	14:26
DNAPL Level (from top of casing)	Not Present	Time:	-
Static water level (from top of casing)	17.27	Time:	14:26
Water level after purging (from top of casing)	19.66	Time:	15:42
Water level before sampling (from top of casing)	19.66	Time:	15:44

Purging Method:

				Well Volume Calculation:	1 volume	3 volumes
X	Peristaltic		Centrifugal	2 in. well: ____ ft. of water x 0.16 = ____ gal.	x 3 = ____ gal.	
	Bailer		Pos. Displ.	4 in. well: ____ ft. of water x 0.65 = ____ gal.	x 3 = ____ gal.	
	Bladder 100ml	X	Ded. Tubing	6 in. well: ____ ft. of water x 1.47 = ____ gal.	x 3 = ____ gal.	

Depth of Tubing Intake: 25' Purge Start Time: 14:46 (hrs) Purge Duration: 56 (min)

Purge End Time: 15:42 (hrs) Purge Flow Rate: varied (lpm)

Volume of water removed: < 2 gal. >3 volumes: yes ____ no x purged dry? yes ____ no x

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		mS/cm	NTU	mg/l	°F	mV	Ft.	ml/min.
Initial	6.77	15.15	4.14	1.69	62.91	-90.00	17.27	100
14:51	6.00	14.78	7.76	0.67	58.10	-99.70	17.85	100
15:01	5.53	13.78	1.07	0.34	58.29	-131.70	18.75	100
15:08	5.66	13.34	0.50	0.32	59.14	-141.80	19.12	100
15:18	6.19	11.59	1.30	0.43	62.53	-147.50	19.39	50
15:28	6.42	13.44	0.91	0.49	62.62	-151.00	19.53	50
15:34	6.43	13.55	1.21	0.49	62.57	-151.70	19.66	25
15:38	6.45	13.51	1.00	0.49	62.46	-152.60	19.66	25
15:42	6.45	13.51	1.01	0.49	62.46	-152.60	19.66	25
After Sample	6.42	13.54	0.99	0.41	63.01	-161.09	19.65	NA

Sampling:

Time readings stabilized: 15:42

Sample Start Time: 15:44 Chain of Custody sample time: 15:44

Sample End Time: 17:15 Duration of sample time: 91 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
	Bladder Pump 100ml		PCB/Pest	
X	Peristaltic pump		Physical	
X	Dedicated Tubing		Other	

Observations

Weather/Temperature: 86F Hot & Humid

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes ____ no X describe

Sheen? yes ____ no X describe

Odor? yes X no ____ describe

Comments:

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/10/2005

SAMPLE ID : Did Not Collect Sample
WELL ID : MW- 1DD
SAMPLERS : James Castle
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading	4214		7:41
Depth of well (from top of casing)	75.19	Time:	7:48
LNAPL Level (from top of casing)	Not Present	Time:	-
DNAPL Level (from top of casing)	Not Present	Time:	-
Static water level (from top of casing)	52.97	Time:	7:47
Water level after purging (from top of casing)	74.01	Time:	15:55
Water level before sampling (from top of casing)	NA	Time:	-

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:	22.22	ft. of water x 0.16 =	3.55	gal.	x 3 =	gal.
	Bailer		Pos. Displ.	4 in. well:		ft. of water x 0.65 =		gal.	x 3 =	gal.
X	Bladder 100ml	X	Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =	gal.

Depth of Pump: 65' Purge Start Time: 8:35 (hrs) Purge Duration: (min)
Purge End Time: 15:55 (hrs) Purge Flow Rate: varied (lpm)

Volume of water removed: ~3.5 gal. >3 volumes: yes no X purged dry? yes X no

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		mS/cm	NTU	%	°F	mV	Ft.	ml/min.
Initial 8:47	6.75	1.828	12.3	24.30	69.45	20.2	52.30	30.00
8:54	6.86	1.809	21.7	13.00	69.82	-32.8	53.63	30.00
9:09	7.05	1.805	23.4	12.50	71.46	-42.9	53.96	30.00
9:19	7.10	1.810	25.2	13.80	72.87	-49.00	54.19	30.00
9:29	7.14	1.816	20.3	12.10	73.55	-56.5	54.38	25.00
9:39	7.11	1.826	15.7	10.60	74.50	-62.2	54.62	25.00
9:49	7.10	1.851	13.7	10.90	75.96	-61.5	54.68	30.00
10:03	7.07	1.866	14.4	11.20	77.44	-66.8	54.87	20.00
10:18	7.04	1.891	8.72	11.20	79.00	-70.5	55.03	20.00
10:34	7.05	1.901	8.29	12.60	82.66	-73.00	55.05	10.00
10:39	7.04	1.906	8.33	12.90	83.72	-73.8	55.05	10.00
10:49	7.04	1.906	8.21	13.80	83.81	-72.9	55.08	10.00
After Sample	NA	NA	NA	NA	NA	NA	NA	NA

Sampling: Time readings stabilized: NA
Sample Start Time: NA Chain of Custody sample time: NA
Sample End Time: NA Duration of sample time: NA min

Collection Method:		Analyses:		Analytical Method:
NA	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
NA	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
NA	Disposable bailer	X	Metals	TAL Metals by ILM04.2
NA	Bladder Pump 100ml		PCB/Pest	
NA	Peristaltic pump		Physical	
NA	Dedicated Tubing		Other	

Observations

Weather/Temperature:
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes no describe
Sheen? yes no describe
Odor? yes no describe

Comments: 10:49 Field readings are not stabilizing. Purged well to dry at ~300 ml/min. Will return to sample after sufficient recovery.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/13/2005

SAMPLE ID : MW- 1DD

WELL ID : MW- 1DD

SAMPLERS : James Castle

Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading……			
Depth of well (from top of casing)	75.19	Time:	7:50
LNAPL Level (from top of casing).....	Not Present	Time:	-
DNAPL Level (from top of casing).....	Not Present	Time:	-
Static water level (from top of casing).....	53.04	Time:	7:50
Water level after purging (from top of casing).....	57.78	Time:	8:48
Water level before sampling (from top of casing).....	57.78	Time:	8:48

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:	22.15	ft. of water x 0.16 =	3.54	gal.	x 3 =		gal.
	Bailer		Pos. Displ.	4 in. well:		ft. of water x 0.65 =		gal.	x 3 =		gal.
X	Bladder 100ml	X	Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =		gal.

Depth of Pump: 65' Purge Start Time: 8:35 (hrs) Purge Duration: 13 (min)

Purge End Time: 8:48 (hrs) Purge Flow Rate: ~0.15 (lpm)

Volume of water removed: gal. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.
units		mS/cm	NTU	mg/l	°F	mV	Ft.
Initial	7.17	1.17	25.2	1.60	62.02	-57.8	55.80
8:42	7.03	2.034	19.9	0.98	61.12	-70.2	56.94
8:48	7.02	2.004	20.1	0.82	60.98	-74.4	57.78
After Sample							

Sampling: Time readings stabilized: NA

Sample Start Time: 8:49 Chain of Custody sample time: 8:49

Sample End Time: 9:17 Duration of sample time: 28 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
X	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
X	Dedicated Tubing		Other	

Observations

Weather/Temperature:

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes ___ no x describe

Sheen? yes ___ no x describe

Odor? yes ___ no x describe

Comments: Collected blind laboratory duplicate at this location DUP ID: DUP061305 Time 16:00

Analysis: VOC, SVOC, Metals

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/9/2005

SAMPLE ID : Did Not Collect Sample
WELL ID : MW- 2D
SAMPLERS : James Castle
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading……			
Depth of well (from top of casing)	43.75	Time:	15:25
LNAPL Level (from top of casing).....	Not Present	Time:	-
DNAPL Level (from top of casing).....	Not Present	Time:	-
Static water level (from top of casing).....	42.19	Time:	15:24
Water level after purging (from top of casing).....	43.51	Time:	15:53
Water level before sampling (from top of casing).....		Time:	

Purging Method:

				Well Volume Calculation:			1 volume		3 volumes
	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal. x 3 =	gal.
X	Bailer (Dedicated)		Pos. Displ.	4 in. well:	1.56	ft. of water x 0.65 =	1.01	gal. x 3 =	gal.
	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal. x 3 =	gal.

Depth of Pump: Purge Start Time: 15:30 (hrs) Purge Duration: 25 (min)
Purge End Time: 15:55 (hrs) Purge Flow Rate: (lpm)

Volume of water removed: ~.85 gal. >3 volumes: yes no X purged dry? yes X no

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.
units		mS/cm	NTU	mg/l	°C	mV	Ft.
Initial							
After Sample							

Sampling: Time readings stabilized: NA
Sample Start Time: NA Chain of Custody sample time: NA
Sample End Time: NA Duration of sample time: NA min

Collection Method:		Analyses:		Analytical Method:
NA	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
NA	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
NA	Disposable bailer	X	Metals	TAL Metals by ILM04.2
NA	Bladder Pump 100ml		PCB/Pest	
NA	Peristaltic pump		Physical	
NA	Dedicated Tubing		Other	

Observations

Weather/Temperature:
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes no describe
Sheen? yes no describe
Odor? yes no describe

Comments: Purged well dry with dedicated bailer. Will return to sample after sufficient recovery.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/10/2005

SAMPLE ID : MW- 2D
WELL ID : MW- 2D
SAMPLERS : James Castle
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading……			
Depth of well (from top of casing)	43.75	Time:	
LNAPL Level (from top of casing)	Not Present	Time:	-
DNAPL Level (from top of casing)	Not Present	Time:	-
Static water level (from top of casing)	42.19	Time:	11:45
Water level after purging (from top of casing)		Time:	
Water level before sampling (from top of casing)		Time:	

Purging Method:

___ Peristaltic ___ Centrifugal
___ Bailer (Dedicated) ___ Pos. Displ.
___ Bladder 100ml ___ Ded. Tubing

Depth of Pump: ___

Well Volume Calculation:

			1 volume		3 volumes
2 in. well:	___	ft. of water x 0.16 =	___	gal. x 3 =	___ gal.
4 in. well:	1.56	ft. of water x 0.65 =	1.01	gal. x 3 =	___ gal.
6 in. well:	___	ft. of water x 1.47 =	___	gal. x 3 =	___ gal.

Purge Start Time: NA (hrs) Purge Duration: NA (min)
Purge End Time: NA (hrs) Purge Flow Rate: NA (lpm)

Volume of water removed: ___ gal. >3 volumes: yes ___ no ___ purged dry? yes ___ no ___

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.
units		mS/cm	NTU	mg/l	°C	mV	Ft.
Initial							
After Sample							

Sampling:

Time readings stabilized: NA
Sample Start Time: 12:15 Chain of Custody sample time: 12:15
Sample End Time: 12:22 Duration of sample time: 7 min

Collection Method:

X	Dedicated Poly Bailer
	Teflon bailer
	Disposable bailer
	Bladder Pump 100ml
	Peristaltic pump
	Dedicated Tubing

Analyses:

X	VOCs -
X	SVOCs
X	Metals
	PCB/Pest
	Physical
	Other

Analytical Method:

TCL VOCs OLC02.1
TCL SVOCs OLC02.1
TAL Metals by ILM04.2

Observations

Weather/Temperature:
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no x describe
Sheen? yes ___ no x describe
Odor? yes ___ no x describe

Comments: Sampled well with dedicated bailer.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/9/2005

SAMPLE ID : Did Not Collect Sample
WELL ID : MW-2DD
SAMPLERS : James Castle
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading	48.3		10:42
Depth of well (from top of casing)	80.09	Time:	10:47
LNAPL Level (from top of casing)	Not Present	Time:	-
DNAPL Level (from top of casing)	Not Present	Time:	-
Static water level (from top of casing)	56.38	Time:	10:45
Water level after purging (from top of casing)	79.50	Time:	15:55
Water level before sampling (from top of casing)	NA	Time:	NA

Purging Method:

				Well Volume Calculation:		1 volume		3 volumes
	Peristaltic		Centrifugal	2 in. well:	ft. of water x 0.16 =	gal.	x 3 =	gal.
X	Bailer (Dedicated)		Pos. Displ.	4 in. well: 23.71	ft. of water x 0.65 =	15.412 gal.	x 3 =	gal.
X	Bladder 100ml	X	Ded. Tubing	6 in. well:	ft. of water x 1.47 =	gal.	x 3 =	gal.

Depth of Pump: 75' Purge Start Time: 11:02 (hrs) Purge Duration: 293 (min)
Purge End Time: 15:55 (hrs) Purge Flow Rate: varied (lpm)

Volume of water removed: ~16 gal. >3 volumes: yes no X purged dry? yes X no

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		mS/cm	NTU	mg/l	°F	mV	Ft.	ml/min.
Initial	7.10	7.13	9.40	2.43	66.65	-29.5	56.15	150.00
11:12	6.98	7.15	5.60	1.96	66.01	-18.7	56.68	150.00
11:22	6.77	8.10	5.19	1.16	66.42	-1.1	57.27	150.00
11:33	6.77	7.59	10.42	1.05	68.30	-3.00	57.75	90.00
11:44	6.90	7.76	8.34	1.10	71.30	-4.7	58.05	30.00
12:00	7.08	7.09	8.06	1.14	76.96	-9.3	58.17	30.00
After Sample								

Sampling:
Time readings stabilized: NA
Sample Start Time: NA Chain of Custody sample time: NA
Sample End Time: NA Duration of sample time: NA min

Collection Method:		Analyses:		Analytical Method:
NA	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
NA	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
NA	Disposable bailer	X	Metals	TAL Metals by ILM04.2
NA	Bladder Pump 100ml		PCB/Pest	
NA	Peristaltic pump		Physical	
NA	Dedicated Tubing		Other	

Observations

Weather/Temperature: Humid, Hot High 85F
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes no describe
Sheen? yes no describe
Odor? yes no describe

Comments: 12:00 well does not stabilize (drawdown) @ 30ml/min. Begin purging at 250 ml/min. to reduce head.
14:50 water level at 66.24 and still dropping when pumping resumes at 20 ml/min. Will utilize designated bailer to bail well dry. Start bailing well at 15:30 with dedicated bailer. Well dry at 15:55. Will return to sample after sufficient recovery.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/13/2005

SAMPLE ID : MW- 2DD

WELL ID : MW- 2DD Time Onsite: Time Offsite:

SAMPLERS : James Castle

Jeremy Wolf

PID reading……

Depth of well (from top of casing) ..... 80.09 Time: -

LNAPL Level (from top of casing)..... Not Present Time: -

DNAPL Level (from top of casing)..... Not Present Time: -

Static water level (from top of casing)..... 64.84 Time: 10:00

Water level after purging (from top of casing)..... 65.88 Time: 10:53

Water level before sampling (from top of casing)..... 65.88 Time: 10:54

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal.	x 3 =	gal.
	Bailer (Dedicated)		Pos. Displ.	4 in. well:		ft. of water x 0.65 =		gal.	x 3 =	gal.
X	Bladder 100ml	X	Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =	gal.

Depth of Pump: 75' Purge Start Time: 10:35 (hrs) Purge Duration: 20 (min)

Purge End Time: 10:55 (hrs) Purge Flow Rate: 0.03 (lpm)

Volume of water removed:

gal. >3 volumes: yes no X purged dry? yes no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.
units		mS/cm	NTU	mg/l	°F	mV	Ft.
Initial 10:48	7.62	6.84	31.6	6.23	68.05	-69.2	65.49
10:50	7.59	8.105	20.4	6.15	68.07	-65.6	65.78
10:53	7.55	7.62	9.28	6.05	67.4	-58.0	65.88
After Sample							

Sampling: Time readings stabilized: NA

Sample Start Time: 10:55 Chain of Custody sample time: 10:55

Sample End Time: 12:05 Duration of sample time: 70 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
X	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
X	Dedicated Tubing		Other	

Observations

Weather/Temperature:

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes no x describe

Sheen? yes no x describe

Odor? yes no x describe

Comments:

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/8/2005

SAMPLE ID : MW- 3D
WELL ID : MW- 3D
SAMPLERS : James Castle
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading	60.3		
Depth of well (from top of casing)	46.23	Time: 8:58	
LNAPL Level (from top of casing)	Not Present	Time: -	
DNAPL Level (from top of casing)	Not Present	Time: -	
Static water level (from top of casing)	27.42	Time: 8:57	
Water level after purging (from top of casing)	35.32	Time: 13:25	
Water level before sampling (from top of casing)	35.32	Time: 13:25	

Purging Method:

				Well Volume Calculation:		1 volume		3 volumes
	Peristaltic		Centrifugal	2 in. well:	ft. of water x 0.16 =	gal.	x 3 =	gal.
	Bailer (Dedicated)		Pos. Displ.	4 in. well: 18.81	ft. of water x 0.65 =	12.22 gal.	x 3 =	gal.
X	Bladder 100ml	X	Ded. Tubing	6 in. well:	ft. of water x 1.47 =	gal.	x 3 =	gal.

Depth of Pump: 45.0' Purge Start Time: 9:26 (hrs) Purge Duration: 238 (min)
Purge End Time: 13:24 (hrs) Purge Flow Rate: varied (lpm)

Volume of water removed: 8.5 gal. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Purge Rate
units		mS/cm	NTU	mg/l	°F	mV	Ft.	ml/min.
Initial	6.18	1.87	16.10	2.60	61.91	-11	27.20	
9:36	6.41	1.82	3.59	1.12	59.56	-73.8	27.85	
9:44	6.60	0.97	3.28	0.98	60.02	-86.1	28.05	
9:56	6.83	1.12	5.00	0.73	63.41	-91.9	28.22	
10:10	6.90	0.95	4.74	0.78	66.28	-94.9	28.27	
10:22	6.97	1.98	4.40	1.04	69.96	-93.7	28.29	
10:33	7.15	1.99	4.20	1.15	71.34	-93.2	28.29	
10:47	6.97	1.99	3.80	1.03	73.22	-93.8	28.30	
11:00	6.95	1.97	3.70	1.01	74.00	-93.5	28.33	20
12:56	6.63	1.95	4.17	0.68	60.01	-77.5	35.26	200
13:02	6.33	1.92	4.22	0.53	59.88	-83.2	35.27	300
13:07	6.12	1.9	4.83	0.47	58.65	-85.4	35.33	300
13:12	6.12	1.88	3.27	0.43	58.8	-86.1	35.36	300
13:18	6.20	1.88	3.22	0.50	58.9	-87	35.35	250
13:25	6.12	1.87	5.00	0.38	60	-87.9	35.32	250
After Sample	6.15	1.87	4.01	0.35	60.2	-88.1	35.33	NA

Sampling: Time readings stabilized: 13:25
Sample Start Time: 13:25 Chain of Custody sample time: 13:25
Sample End Time: 14:20 Duration of sample time: 65 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
X	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
X	Dedicated Tubing		Other	

Observations

Weather/Temperature: 85F, sunny
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no x describe
Sheen? yes ___ no x describe
Odor? yes ___ no x describe
Comments:

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/7/2005

SAMPLE ID : MW- 3DD
WELL ID : MW- 3DD
SAMPLERS : James Castle
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading			10:23
Depth of well (from top of casing)	75.05	Time:	10:27
LNAPL Level (from top of casing)	Not Present	Time:	-
DNAPL Level (from top of casing)	Not Present	Time:	-
Static water level (from top of casing)	36.11	Time:	10:25
Water level after purging (from top of casing)	38.82	Time:	12:24
Water level before sampling (from top of casing)	38.81	Time:	12:25

Purging Method: Bladder Pump Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal.	x 3 =	gal.
	Bailer (Dedicated)		Pos. Displ.	4 in. well:	38.94	ft. of water x 0.65 =	25.31	gal.	x 3 =	gal.
X	Bladder 100ml	X	Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =	gal.

Depth of Pump: 65' Purge Start Time: 11:18 (hrs) Purge Duration: 67 (min)
Purge End Time: 12:25 (hrs) Purge Flow Rate: 0.15 (lpm)

Volume of water removed: 2.75 gal. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.
units		mS/cm	NTU	mg/l	°F	mV	Ft.
Initial	6.04	2.07	42.10	1.73	63.5	-82.3	36.36
11:23	6.16	1.95	10.98	0.76	58.74	-163.2	36.76
11:30	6.38	2.04	14.60	0.82	59.55	-185.4	37.42
11:38	6.53	2.06	8.20	0.79	58.96	-196.5	37.84
11:48	6.65	1.42	7.10	0.64	58.92	-206.1	38.52
12:03	6.89	1.33	6.56	0.76	64.79	-200	38.76
12:10	6.86	1.34	6.86	0.73	62.79	-198.8	38.80
12:18	6.88	1.32	6.83	0.78	62.24	-197.7	38.81
12:24	6.90	1.38	6.27	0.69	62.14	-202.3	38.80
After Sample	6.99	1.34	6.30	0.68	63.1	-165	38.82

Sampling: Time readings stabilized: 12:25
Sample Start Time: 12:25 Chain of Custody sample time: 12:25
Sample End Time: 12:53 Duration of sample time: 28 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
X	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
X	Dedicated Tubing		Other	

Observations

Weather/Temperature: ~85F, sunny and warm
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no X describe
Sheen? yes ___ no X describe
Odor? yes ___ no X describe

Comments: Collected daily field blank prior to sampling. ID: FB060705 Time: 10:40

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 6/9/2005

SAMPLE ID : MW- 4D

WELL ID : MW- 4D Time Onsite: Time Offsite:

SAMPLERS : James Castle

Jeremy Wolf

PID reading……	11.8		
Depth of well (from top of casing)	48.42	Time:	7:33
LNAPL Level (from top of casing).....	Not Present	Time:	-
DNAPL Level (from top of casing).....	Not Present	Time:	-
Static water level (from top of casing).....	36.69	Time:	7:32
Water level after purging (from top of casing).....	39.09	Time:	8:50
Water level before sampling (from top of casing).....	39.09	Time:	8:52

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal.	x 3 =	gal.
	Bailer (Dedicated)		Pos. Displ.	4 in. well:	11.73	ft. of water x 0.65 =	7.62	gal.	x 3 =	gal.
X	Bladder 100ml	X	Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =	gal.

Depth of Pump: 45' Purge Start Time: 7:43 (hrs) Purge Duration: 67 (min)

Purge End Time: 8:50 (hrs) Purge Flow Rate: varied (lpm)

Volume of water removed:

2 gal. >3 volumes: yes no X purged dry? yes no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		mS/cm	NTU	mg/l	°F	mV	Ft.	ml/min.
Initial	6.43	1.5	0.74	5.28	65.34	193		
7:56	6.73	1.71	1.54	4.40	60.5	180.2	37.00	150
8:04	6.88	2.95	2.55	3.90	58.74	160.6	37.50	250
8:15	6.94	1.49	1.94	3.84	57.55	144.6	38.22	200
8:25	6.98	3.021	4.90	3.75	57.88	135.1	38.80	100
8:35	7.04	3.02	6.46	3.74	59.92	129.1	39.10	25
8:40	7.07	3.02	4.33	3.91	62.02	126.2	39.09	25
8:45	7.10	2.99	3.79	3.86	64.08	123.4	39.09	25
8:50	7.12	2.8	3.88	3.90	65.49	121.2	39.09	25
After Sample	7.32	3.08	4.43	4.21	62.9	101.5	39.10	

Sampling: Time readings stabilized: 8:50

Sample Start Time: 8:52 Chain of Custody sample time: 8:52

Sample End Time: 10:10 Duration of sample time: 78 min

Collection Method:		Analyses:		Analytical Method:
	Stainless steel bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
X	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
X	Dedicated Tubing		Other	

Observations

Weather/Temperature: ~75F, Muggy

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes no X describe

Sheen? yes no X describe

Odor? yes no X describe

Comments:

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/3/2006

SAMPLE ID : MW- 1D

WELL ID : MW- 1D Time Onsite: Time Offsite:

SAMPLERS : Brian Hoffmire

Jeremy Wolf

PID reading……	NR		NR
Depth of well (from top of casing).....	Not Recorded	Time:	
LNAPL Level (from top of casing).....	17.13	Time:	11:00
DNAPL Level (from top of casing).....	Not Present	Time:	-
Static water level (from top of casing).....	17.21	Time:	10:59
Water level after purging (from top of casing).....	20.86	Time:	12:30
Water level before sampling (from top of casing).....	20.86	Time:	12:30

Purging Method: Well Volume Calculation: 1 volume 3 volumes

X	Peristaltic		Centrifugal	2 in. well:	X	ft. of water x 0.16 =		gal. x 3 =	gal.
	Bailer		Pos. Displ.	4 in. well:		ft. of water x 0.65 =		gal. x 3 =	gal.
	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal. x 3 =	gal.

Depth of Tubing Intake: 25' Purge Start Time: 11:10 (hrs) Purge Duration: 80 (min)

Purge End Time: 12:30 (hrs) Purge Flow Rate: see below (lpm)

Volume of water removed:

3 gal. >3 volumes: yes no x purged dry? yes no x

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	°C	mV	Ft.	ml/min.
Initial 11:10	5.94	4600	7.57	1.15	15.75	-41.1	17.45	150
11:20	5.94	5115	14.60	1.35	15.78	-54.2	18.15	175
11:30	5.88	5152	10.49	1.21	15.68	-54.4	18.39	150
11:40	5.83	5128	8.86	1.85	15.90	-58.4	18.80	150
11:50	5.86	5140	7.90	1.72	16.09	-62.0	19.25	150
12:00	5.84	5175	9.80	1.58	16.12	-63.4	19.59	150
12:10	5.88	5180	10.56	1.37	15.94	-69.3	20.00	175
12:20	5.96	5793	8.04	1.83	16.11	-55.3	20.50	150
12:15	5.92	5838	8.71	1.51	15.86	-63.4	20.71	175
12:30	5.91	5792	9.01	1.40	15.86	-67.3	20.86	175
After Sample	6.20	5790	8.31	2.29	17.09	-49.0	21.02	175

Sampling: Time readings stabilized: 12:30

Sample Start Time: 12:30 Chain of Custody sample time: 12:30

Sample End Time: 12:50 Duration of sample time: 20 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
	Bladder Pump 100ml		PCB/Pest	
X	Peristaltic pump		Physical	
	Dedicated Tubing		Other	

Observations

Weather/Temperature: Sunnt ~ 70°F slight breeze 0-5 mph

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes no X describe

Sheen? yes no X describe

Odor? yes X no describe slight sulfur

Comments:

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/29/2006

SAMPLE ID : Did Not Collect Sample
WELL ID : MW- 1DD
SAMPLERS : Brian Hoffmire
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading……			
Depth of well (from top of casing)	75.00	Time:	9:17
LNAPL Level (from top of casing).....	Not Present	Time:	-
DNAPL Level (from top of casing).....	Not Present	Time:	-
Static water level (from top of casing).....	51.75	Time:	9:15
Water level after purging (from top of casing).....		Time:	
Water level before sampling (from top of casing).....		Time:	

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:	23.25	ft. of water x 0.16 =	3.72 gal.	x 3 =	gal.
	Bailer		Pos. Displ.	4 in. well:		ft. of water x 0.65 =	gal.	x 3 =	gal.
	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =	gal.	x 3 =	gal.

Depth of Pump: Purge Start Time: (hrs) Purge Duration: (min)
Purge End Time: (hrs) Purge Flow Rate: (lpm)
Volume of water removed:
4 gal. >3 volumes: yes no purged dry? yes no

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	%	°C	mV	Ft.	ml/min.
Initial								
After Sample								

Sampling: Time readings stabilized: NA
Sample Start Time: NA Chain of Custody sample time: NA
Sample End Time: NA Duration of sample time: NA min

Collection Method:		Analyses:		Analytical Method:
NA	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
NA	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
NA	Disposable bailer	X	Metals	TAL Metals by ILM04.2
NA	Bladder Pump 100ml		PCB/Pest	
NA	Peristaltic pump		Physical	
NA	Dedicated Tubing		Other	

Observations

Weather/Temperature:
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes no describe
Sheen? yes no describe
Odor? yes no describe

Comments: Strong sulfur odor noted during purging.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/31/2006

SAMPLE ID : MW- 1DD

WELL ID : MW- 1DD

SAMPLERS :	Time Onsite:	Time Offsite:
Brian Hoffmire	7:00	
Jeremy Wolf	7:00	

PID reading……	NR		
Depth of well (from top of casing)	75.00	Time:	7:17
LNAPL Level (from top of casing).....	Not Present	Time:	-
DNAPL Level (from top of casing).....	Not Present	Time:	-
Static water level (from top of casing)	50.55	Time:	7:16
Water level after purging (from top of casing).....	59.44	Time:	8:50
Water level before sampling (from top of casing)	59.44	Time:	8:50

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:	24.75	ft. of water x 0.16 =	3.91	gal.	x 3 =	gal.
(1st) X	Bailer		Pos. Displ.	4 in. well:		ft. of water x 0.65 =		gal.	x 3 =	gal.
(2nd) X	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =	gal.

Depth of Pump: 70' Purge Start Time: 8:10 (hrs) Purge Duration: 40 (min)

Purge End Time: 8:50 (hrs) Purge Flow Rate: see below (lpm)

Volume of water removed: 5.5 gal. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	°C	mV	Ft.	ml/min.
Initial 8:10	5.54	47	11.70	6.65	15.10	105.1	59.37	100
8:20	6.19	1255	4.41	6.01	15.26	13.7	59.25	150
8:30	6.31	1350	3.32	5.98	14.90	32	59.41	150
8:40	6.35	1347	2.51	5.91	14.89	44.4	59.45	125
8:45	6.36	1326	2.27	5.92	14.93	49.1	59.45	125
8:50	6.34	1293	2.29	5.88	14.95	53.1	59.44	125
After Sample	6.48	981	2.1	6.47	15.63	67.3	59.45	125.00

Sampling: Time readings stabilized: 8:50

Sample Start Time: 8:50 Chain of Custody sample time: 8:50

Sample End Time: 9:45 Duration of sample time: 55 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
X	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
	Dedicated Tubing		Other	

Observations

Weather/Temperature: cool ~65 °F partly cloudy skies

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes ___ no x describe

Sheen? yes ___ no x describe

Odor? yes x no ___ describe Strong sulfur

Comments: Initiated purging with bailer. Removed 4.5 gallons with bailer then initiated purging with bladder pump. Collected Duplicate at MW-1DD, ID: DUP083106 Time: 1700

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/29/2006

SAMPLE ID : Did Not Collect Sample
WELL ID : MW- 2D
SAMPLERS : Brian Hoffmire
Jeremy Wolf

		Time Onsite:	Time Offsite:
		7:00	
		7:00	
PID reading		NR	
Depth of well (from top of casing)		43.57	Time:
LNAPL Level (from top of casing)		NA	Time:
DNAPL Level (from top of casing)		NA	Time:
Static water level (from top of casing)		41.7	Time: 7:20
Water level after purging (from top of casing)		43.21	Time: 7:55
Water level before sampling (from top of casing)			Time:

Purging Method:

				Well Volume Calculation:		1 volume		3 volumes
	Peristaltic		Centrifugal	2 in. well:	ft. of water x 0.16 =	gal.	x 3 =	gal.
X	Bailer (Dedicated)		Pos. Displ.	4 in. well: 1.55	ft. of water x 0.65 =	gal.	x 3 =	gal.
	Bladder 100ml		Ded. Tubing	6 in. well:	ft. of water x 1.47 =	gal.	x 3 =	gal.

Depth of Pump: NA Purge Start Time: 7:25 (hrs) Purge Duration: 30 (min)
Purge End Time: 7:55 (hrs) Purge Flow Rate: bailer (lpm)

Volume of water removed: ~1.25 gal. >3 volumes: yes ___ no X purged dry? yes X no ___

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.
units		uS/cm	NTU	mg/l	°C	mV	Ft.
Initial							
After Sample							

Sampling:
Time readings stabilized: NA
Sample Start Time: NA Chain of Custody sample time: NA
Sample End Time: NA Duration of sample time: NA min

Collection Method:		Analyses:		Analytical Method:
NA	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
NA	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
NA	Disposable bailer	X	Metals	TAL Metals by ILM04.2
NA	Bladder Pump 100ml		PCB/Pest	
NA	Peristaltic pump		Physical	
NA	Dedicated Tubing		Other	

Observations

Weather/Temperature:
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no ___ describe
Sheen? yes ___ no ___ describe
Odor? yes ___ no ___ describe

Comments: Purged well dry with dedicated bailer. Will return to sample after sufficient recovery.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 9/1/2006

SAMPLE ID : MW- 2D
WELL ID : MW- 2D Time Onsite: Time Offsite:
SAMPLERS : Brian Hoffmire
Jeremy Wolf

PID reading……
Depth of well (from top of casing) ..... Time:
LNAPL Level (from top of casing)..... Time:
DNAPL Level (from top of casing)..... Time:
Static water level (from top of casing)..... 42.05 Time: 8:18
Water level after purging (from top of casing)..... Time:
Water level before sampling (from top of casing)..... Time:

Purging Method: Well Volume Calculation: 1 volume 3 volumes

___ Peristaltic ___ Centrifugal 2 in. well: ___ ft. of water x 0.16 = ___ gal. x 3 = ___ gal.
___ Bailer (Dedicated) ___ Pos. Displ. 4 in. well: ___ ft. of water x 0.65 = ___ gal. x 3 = ___ gal.
___ Bladder 100ml ___ Ded. Tubing 6 in. well: ___ ft. of water x 1.47 = ___ gal. x 3 = ___ gal.

Depth of Pump: ___ Purge Start Time: ___ (hrs) Purge Duration: ___ (min)
Purge End Time: ___ (hrs) Purge Flow Rate: ___ (lpm)
Volume of water removed:
___ gal. >3 volumes: yes ___ no ___ purged dry? yes ___ no ___

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.
units		uS/cm	NTU	mg/l	°C	mV	Ft.
Initial							
After Sample							

Sampling: Time readings stabilized:
Sample Start Time: 8:25 Chain of Custody sample time: 8:25
Sample End Time: 8:35 Duration of sample time: 10 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
X	Disposable bailer	X	Metals	TAL Metals by ILM04.2
	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
	Dedicated Tubing		Other	

Observations

Weather/Temperature:
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no x describe
Sheen? yes ___ no x describe
Odor? yes ___ no x describe

Comments: Collected sample with disposable poly bailer. Not enough well volume to collect field parameters.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/29/2006

SAMPLE ID : Did Not Collect Sample

WELL ID : MW-2DD Time Onsite: Time Offsite:

SAMPLERS : Brian Hoffmire 7:00

Jeremy Wolf 7:00

PID reading……	NR		10:42
Depth of well (from top of casing)	79.86	Time:	10:47
LNAPL Level (from top of casing).....	NA	Time:	-
DNAPL Level (from top of casing).....	NA	Time:	-
Static water level (from top of casing).....	55.82	Time:	7:40
Water level after purging (from top of casing).....	79.52	Time:	8:57
Water level before sampling (from top of casing).....	NA	Time:	

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal.	x 3 =	gal.
X	Bailer (Dedicated)		Pos. Displ.	4 in. well:	24.04	ft. of water x 0.65 =	15.626	gal.	x 3 =	gal.
	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =	gal.

Depth of Pump: NA Purge Start Time: 7:45 (hrs) Purge Duration: 72 (min)

Purge End Time: 8:57 (hrs) Purge Flow Rate: bailer (lpm)

Volume of water removed:

15.25 gal. >3 volumes: yes ___ no X purged dry? yes ___ no x

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	°C	mV	Ft.	ml/min.
Initial								
After Sample								

Sampling: Time readings stabilized: NA

Sample Start Time: NA Chain of Custody sample time: NA

Sample End Time: NA Duration of sample time: NA min

Collection Method:		Analyses:		Analytical Method:
NA	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
NA	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
NA	Disposable bailer	X	Metals	TAL Metals by ILM04.2
NA	Bladder Pump 100ml		PCB/Pest	
NA	Peristaltic pump		Physical	
NA	Dedicated Tubing		Other	

Observations

Weather/Temperature:

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes ___ no ___ describe

Sheen? yes ___ no ___ describe

Odor? yes ___ no ___ describe

Comments: Purged well dry with dedicated bailer. Will return to sample well after sufficient recovery.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 9/1/2006

SAMPLE ID : MW- 2DD
WELL ID : MW- 2DD Time Onsite: Time Offsite:
SAMPLERS : Brian Hoffmire
Jeremy Wolf

PID reading……
Depth of well (from top of casing) ..... Time:
LNAPL Level (from top of casing)..... Time:
DNAPL Level (from top of casing)..... Time:
Static water level (from top of casing)..... 68.45 Time: 8:53
Water level after purging (from top of casing)..... Time:
Water level before sampling (from top of casing)..... Time:

Purging Method: Well Volume Calculation: 1 volume 3 volumes

_ Peristaltic _ Centrifugal 2 in. well: _ ft. of water x 0.16 = _ gal. x 3 = _ gal.
_ Bailer (Dedicated) _ Pos. Displ. 4 in. well: _ ft. of water x 0.65 = _ gal. x 3 = _ gal.
_ Bladder 100ml _ Ded. Tubing 6 in. well: _ ft. of water x 1.47 = _ gal. x 3 = _ gal.

Depth of Pump: _ Purge Start Time: _ (hrs) Purge Duration: _ (min)
Purge End Time: _ (hrs) Purge Flow Rate: _ (lpm)
Volume of water removed:
_ gal. >3 volumes: yes _ no _ purged dry? yes _ no _

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	°C	mV	Ft.	ml/min.
Initial								
After Sample	7.02	4623	7.23	6.23	16.68	90	NR	NA

Sampling: Time readings stabilized: NA
Sample Start Time: 9:00 Chain of Custody sample time: 9:00
Sample End Time: 9:05 Duration of sample time: 5 min

Collection Method:		Analyses:		Analytical Method:
_	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
_	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
x	Disposable bailer	X	Metals	TAL Metals by ILM04.2
_	Bladder Pump 100ml	_	PCB/Pest	
_	Peristaltic pump	_	Physical	
_	Dedicated Tubing	_	Other	

Observations

Weather/Temperature:
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes _ no x describe
Sheen? yes _ no x describe
Odor? yes _ no x describe
Comments:

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/29/2006

SAMPLE ID : MW- 3D MS/MSD

WELL ID : MW- 3D Time Onsite: Time Offsite:

SAMPLERS : Brian Hoffmire

Jeremy Wolf

PID reading……	NR		
Depth of well (from top of casing)	46.01	Time:	
LNAPL Level (from top of casing).....	NA	Time:	
DNAPL Level (from top of casing).....	NA	Time:	
Static water level (from top of casing).....	27.30	Time:	14:13
Water level after purging (from top of casing).....	35.00	Time:	15:25
Water level before sampling (from top of casing).....	35.00	Time:	15:25

Purging Method: Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal. x 3 =	gal.
X	Bailer (Dedicated)		Pos. Displ.	4 in. well:		ft. of water x 0.65 =		gal. x 3 =	gal.
X	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal. x 3 =	gal.

Depth of Pump: 40.0' Purge Start Time: 14:49 (hrs) Purge Duration: 36 (min)

Purge End Time: 15:25 (hrs) Purge Flow Rate: see below (lpm)

Volume of water removed: 8.5 gal. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Purge Rate
units		uS/cm	NTU	mg/l	^{O}C	mV	Ft.	ml/min.
Initial 14:49	6.94	2241	22.30	1.87	16.3	-43.6	35.00	175
14:59	6.75	2289	14.80	1.44	14.97	-35.5	34.95	175
15:04	6.67	2340	14.00	1.43	14.78	-32.6	34.95	175
15:10	6.67	2357	10.01	1.51	14.7	-31.2	34.96	175
15:16	6.66	2311	7.44	1.99	14.67	-30.6	35.00	175
15:21	6.68	2334	7.50	2.62	14.67	-29.7	34.98	175
15:25	6.69	2317	6.11	3.22	14.61	-28.3	35.00	175
After Sample	7.28	1050	4.46	4.36	17.01	-8.5	35.00	175

Sampling:

Time readings stabilized: 15:25

Sample Start Time: 15:25 Chain of Custody sample time: 15:25

Sample End Time: 16:20 Duration of sample time: 55 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
	Dedicated Tubing		Other	

Observations

Weather/Temperature: Mostly cloudy skies, ~70^{0}F

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes ___ no x describe

Sheen? yes ___ no x describe

Odor? yes ___ no x describe

Comments:

Initiated purging with bailer to relieve head pressure on well. Bailed water level to 35' below top of casing before initiating purging with bladder pump. Collected MS/MSD at this location.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/29/2006

SAMPLE ID : MW- 3DD

WELL ID : MW- 3DD Time Onsite: Time Offsite:

SAMPLERS : Brian Hoffmire

Jeremy Wolf

PID reading…… NR

Depth of well (from top of casing) ..... 74.90 Time:

LNAPL Level (from top of casing)..... NA Time:

DNAPL Level (from top of casing)..... NA Time:

Static water level (from top of casing)..... 35.51 Time: 10:20

Water level after purging (from top of casing)..... 35.50 Time: 12:20

Water level before sampling (from top of casing)..... 35.50 Time: 12:20

Purging Method: Bladder Pump Well Volume Calculation: 1 volume 3 volumes

	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal.	x 3 =	gal.
	Bailer (Dedicated)		Pos. Displ.	4 in. well:	39.39	ft. of water x 0.65 =	25.60	gal.	x 3 =	gal.
X	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =	gal.

Depth of Pump: 65' Purge Start Time: 11:05 (hrs) Purge Duration: 75 (min)

Purge End Time: 12:20 (hrs) Purge Flow Rate: see below (lpm)

Volume of water removed:

~2.00 gal. >3 volumes: yes no X purged dry? yes no X

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Purge Rate
units		uS/cm	NTU	mg/l	°C	mV	Ft.	ml/min.
Initial 11:05	7.13	1770	6.44	0.48	15.38	-116.4	35.50	NR
11:15	7.14	1048	6.02	0.40	15.34	-117.1	36.00	75
11:25	7.18	1779	7.04	0.42	16.2	-123.9	36.18	75
11:35	7.18	1782	6.43	0.40	16.61	-125.6	36.30	75
11:45	7.20	889	6.15	0.81	17.31	-112.5	36.47	50
11:55	7.19	894	5.13	0.57	17.28	-112.2	36.49	35
12:05	7.20	893	6.10	0.56	17.69	-117.4	35.50	35
12:10	7.19	906	6.52	0.58	18.15	-122.2	35.50	35
12:15	7.20	895	6.25	0.60	18.44	-124.2	35.50	35
12:20	7.20	908	5.74	0.60	18.55	-126.7	35.50	35
After Sample	7.36	477	5.90	1.42	20.54	-65.3	35.50	35

Sampling: Time readings stabilized: 12:20

Sample Start Time: 12:20 Chain of Custody sample time: 12:20

Sample End Time: 13:35 Duration of sample time: 75 min

Collection Method:		Analyses:		Analytical Method:
	Dedicated Poly Bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
X	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
X	Dedicated Tubing		Other	

Observations

Weather/Temperature: Light rain, cloudy skies ~70^{0}F

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes no X describe

Sheen? yes no X describe

Odor? yes no X describe

Comments: Collected daily field blank after collection of sample. ID: FB082906 Time: 14:00

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/30/2006

SAMPLE ID : Did not collect sample

WELL ID : MW-4D Time Onsite: Time Offsite:

SAMPLERS : Brian Hoffmire

Jeremy Wolf

PID reading……

Depth of well (from top of casing) ..... 48.18 Time: 13:24

LNAPL Level (from top of casing)..... Time:

DNAPL Level (from top of casing)..... Time:

Static water level (from top of casing)..... Time:

Water level after purging (from top of casing)..... 47.70 Time: 14:33

Water level before sampling (from top of casing)..... Time:

Purging Method:

	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal.	x 3 =		gal.
X	Bailer (Dedicated)		Pos. Displ.	4 in. well:	15.63	ft. of water x 0.65 =	10.16	gal.	x 3 =		gal.
	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal.	x 3 =		gal.

Well Volume Calculation: 1 volume 3 volumes

Depth of Pump: Purge Start Time: (hrs) Purge Duration: (min)

Purge End Time: (hrs) Purge Flow Rate: (lpm)

Volume of water removed:

10 gal. >3 volumes: yes no X purged dry? yes X no

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	^{O}C	mV	Ft.	ml/min.
Initial								
After Sample								

Sampling:

Time readings stabilized:

Sample Start Time: Chain of Custody sample time:

Sample End Time: Duration of sample time: min

Collection Method:		Analyses:		Analytical Method:
	Stainless steel bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
	Dedicated Tubing		Other	

Observations

Weather/Temperature: Sunny skies, ~70^{0}F

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes no X describe

Sheen? yes no X describe

Odor? yes no X describe

Comments:

Purged well with bailer to dry.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 9/1/2006

SAMPLE ID : MW-4D
WELL ID : MW-4D Time Onsite: Time Offsite:
SAMPLERS : Brian Hoffmire
Jeremy Wolf

PID reading……
Depth of well (from top of casing) ..... 48.18 Time: 7:46
LNAPL Level (from top of casing)..... Time:
DNAPL Level (from top of casing)..... Time:
Static water level (from top of casing)..... Time:
Water level after purging (from top of casing)..... 33.97 Time: 7:45
Water level before sampling (from top of casing)..... Time:

Purging Method: Well Volume Calculation: 1 volume 3 volumes

___ Peristaltic ___ Centrifugal 2 in. well: ___ ft. of water x 0.16 = ___ gal. x 3 = ___ gal.
___ Bailer (Dedicated) ___ Pos. Displ. 4 in. well: ___ ft. of water x 0.65 = ___ gal. x 3 = ___ gal.
___ Bladder 100ml ___ Ded. Tubing 6 in. well: ___ ft. of water x 1.47 = ___ gal. x 3 = ___ gal.

Depth of Pump: ___ Purge Start Time: ___ (hrs) Purge Duration: ___ (min)
Purge End Time: ___ (hrs) Purge Flow Rate: ___ (lpm)

Volume of water removed: ___ gal. >3 volumes: yes ___ no ___ purged dry? yes ___ no ___

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	°C	mV	Ft.	ml/min.
Initial								
After Sample	6.21	2241	2.38	6.77	12.71	121.6	NR	NA

Sampling: Time readings stabilized: ___
Sample Start Time: 7:50 Chain of Custody sample time: 7:50
Sample End Time: 7:58 Duration of sample time: 8 min

Collection Method:		Analyses:		Analytical Method:
___	Stainless steel bailer	X	VOCs -	TCL VOCs OLC02.1
___	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
___	Disposable bailer	X	Metals	TAL Metals by ILM04.2
___	Bladder Pump 100ml	___	PCB/Pest	
___	Peristaltic pump	___	Physical	
___	Dedicated Tubing	___	Other	

Observations

Weather/Temperature: ___
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no X describe ___
Sheen? yes ___ no X describe ___
Odor? yes ___ no X describe ___

Comments:
Collected sample with disposable poly bailer.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/30/2006

SAMPLE ID : Did not sample well
WELL ID : MW-4DD Time Onsite: Time Offsite:
SAMPLERS : Brian Hoffmire
Jeremy Wolf

PID reading..
Depth of well (from top of casing) .... 93.00 Time: 14:11
LNAPL Level (from top of casing)............................. Time:
DNAPL Level (from top of casing)............................. Time:
Static water level (from top of casing)......................... Time:
Water level after purging (from top of casing)............ 91.60 Time: 14:10
Water level before sampling (from top of casing)...... Time:

Purging Method:

				Well Volume Calculation:		1 volume	3 volumes
___	Peristaltic	___	Centrifugal	2 in. well: ___	ft. of water x 0.16 =	___ gal.	x 3 = ___ gal.
X	Bailer (Dedicated)	___	Pos. Displ.	4 in. well: ___	ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
___	Bladder 100ml	___	Ded. Tubing	6 in. well: ___	ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Depth of Pump: ___ Purge Start Time: ___ (hrs) Purge Duration: ___ (min)
Purge End Time: ___ (hrs) Purge Flow Rate: ___ (lpm)

Volume of water removed:
~0.5 gal. >3 volumes: yes ___ no x purged dry? yes x no ___

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	^{o}C	mV	Ft.	ml/min.
Initial								
After Sample	6.21	2241	2.38	6.77	12.71	121.6	NR	NA

Sampling:

Time readings stabilized: ___
Sample Start Time: ___ Chain of Custody sample time: ___
Sample End Time: ___ Duration of sample time: ___ min

Collection Method: / Analyses: / Analytical Method:

Collection Method		Analyses		Analytical Method
___	Stainless steel bailer	X	VOCs -	TCL VOCs OLC02.1
___	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
___	Disposable bailer	X	Metals	TAL Metals by ILM04.2
___	Bladder Pump 100ml	___	PCB/Pest	
___	Peristaltic pump	___	Physical	
___	Dedicated Tubing	___	Other	

Observations

Weather/Temperature: ___
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no ___ describe ___
Sheen? yes ___ no ___ describe ___
Odor? yes ___ no ___ describe ___

Comments:
Collected sample with disposable poly bailer.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/30/2006

SAMPLE ID : MW-5D

WELL ID : MW-5D

SAMPLERS : Brian Hoffmire
Jeremy Wolf

		Time Onsite:	Time Offsite:
PID reading……	NR		
Depth of well (from top of casing)	39.58	Time:	11:00
LNAPL Level (from top of casing).....	NA	Time:	
DNAPL Level (from top of casing).....	NA	Time:	
Static water level (from top of casing).....	31.75	Time:	
Water level after purging (from top of casing).....		Time:	10:59
Water level before sampling (from top of casing).....		Time:	

Purging Method:

				Well Volume Calculation:		1 volume		3 volumes
	Peristaltic		Centrifugal	2 in. well:	7.83	ft. of water x 0.16 =	1.25	gal. x 3 = gal.
	Bailer (Dedicated)		Pos. Displ.	4 in. well:		ft. of water x 0.65 =		gal. x 3 = gal.
x	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal. x 3 = gal.

Depth of Pump: 35 Purge Start Time: 11:10 (hrs) Purge Duration: (min)

Purge End Time: (hrs) Purge Flow Rate: (lpm)

Volume of water removed:

gal. >3 volumes: yes no X purged dry? yes x no

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	^{O}C	mV	Ft.	ml/min.
Initial 11:10	6.87	1332	30.60	2.78	18.87	41.8	31.8	150
11:20	6.62	1263	9.70	1.15	16.13	1.7	32.25	150
11:40	6.57	2096	15.92	0.81	17.17	26.9	32.30	50
12:00	6.66	53	225.00	0.82	18.87	61.4	32.37	50
12:10	6.72	10	159.00	1.31	20.28	54.3	32.40	50
12:20	6.74	9	129.00	1.05	20.36	37.2	32.44	50
12:30	6.74	9	109.00	0.91	20.72	29.0	32.47	50
After Sample								

Sampling:

Time readings stabilized:

Sample Start Time: Chain of Custody sample time:

Sample End Time: Duration of sample time: min

Collection Method:		Analyses:		Analytical Method:
	Stainless steel bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
	Dedicated Tubing		Other	

Observations

Weather/Temperature: Sunny skies, ~70^{0}F

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes no X describe

Sheen? yes no X describe

Odor? yes no X describe

Comments:

12:30 drawdown is not stabilizing, will bail well dry and return to sample well after sufficient recovery.

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/31/2006

SAMPLE ID : MW-5D

WELL ID : MW-5D Time Onsite: Time Offsite:

SAMPLERS : Brian Hoffmire

Jeremy Wolf

PID reading……

Depth of well (from top of casing) ..... Time:

LNAPL Level (from top of casing)..... Time:

DNAPL Level (from top of casing)..... Time:

Static water level (from top of casing)..... 31.83 Time: 13:30

Water level after purging (from top of casing)..... Time:

Water level before sampling (from top of casing)..... Time:

Purging Method: Well Volume Calculation: 1 volume 3 volumes

__ Peristaltic __ Centrifugal 2 in. well: __ ft. of water x 0.16 = __ gal. x 3 = __ gal.

__ Bailer (Dedicated) __ Pos. Displ. 4 in. well: __ ft. of water x 0.65 = __ gal. x 3 = __ gal.

__ Bladder 100ml __ Ded. Tubing 6 in. well: __ ft. of water x 1.47 = __ gal. x 3 = __ gal.

Depth of Pump: Purge Start Time: (hrs) Purge Duration: (min)

Purge End Time: (hrs) Purge Flow Rate: (lpm)

Volume of water removed:

gal. >3 volumes: yes __ no X purged dry? yes x no __

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	^{O}C	mV	Ft.	ml/min.
Initial								
After Sample	7.02	1161	<50	5.73	15.55	29.1	NA	NA

Sampling: Time readings stabilized:

Sample Start Time: 13:35 Chain of Custody sample time: 13:35

Sample End Time: 13:45 Duration of sample time: 10 min

Collection Method:		Analyses:		Analytical Method:
__	Stainless steel bailer	X	VOCs -	TCL VOCs OLC02.1
__	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
X	Disposable bailer	X	Metals	TAL Metals by ILM04.2
__	Bladder Pump 100ml	__	PCB/Pest	
__	Peristaltic pump	__	Physical	
__	Dedicated Tubing	__	Other	

Observations

Weather/Temperature: Sunny, ~70^{0}F

Sample Description: Turbidity: (circle one) HIGH MODERATE LOW

Free Product? yes __ no X describe

Sheen? yes __ no X describe

Odor? yes __ no X describe

Comments:

Collected daily field blank from bailer prior to sampling. ID: FB083106 Time: 13:25

GROUND WATER SAMPLING RECORD

SITE Former Raeco Products RI/FS DATE 8/30/2006

SAMPLE ID : MW-6D
WELL ID : MW-6D
SAMPLERS : Brian Hoffmire
Jeremy Wolf

	Time Onsite:	Time Offsite:
	7:00	
	7:00	
PID reading	NR	
Depth of well (from top of casing)	56.70	Time: 7:28
LNAPL Level (from top of casing)	NA	Time:
DNAPL Level (from top of casing)	NA	Time:
Static water level (from top of casing)	40.13	Time: 7:26
Water level after purging (from top of casing)	41.40	Time: 9:50
Water level before sampling (from top of casing)	41.4	Time: 9:50

Purging Method:

				Well Volume Calculation:		1 volume		3 volumes
	Peristaltic		Centrifugal	2 in. well:		ft. of water x 0.16 =		gal. x 3 = gal.
	Bailer (Dedicated)		Pos. Displ.	4 in. well:	16.57	ft. of water x 0.65 =	10.77	gal. x 3 = gal.
X	Bladder 100ml		Ded. Tubing	6 in. well:		ft. of water x 1.47 =		gal. x 3 = gal.

Depth of Pump: 52' Purge Start Time: 8:10 (hrs) Purge Duration: 100 (min)
Purge End Time: 9:50 (hrs) Purge Flow Rate: see below (lpm)

Volume of water removed: ~3 gal. >3 volumes: yes ___ no X purged dry? yes ___ no x

Field Tests:

	PH	COND	Turb	D.O.	Temp	ORP	D.T.W.	Flow
units		uS/cm	NTU	mg/l	°C	mV	Ft.	ml/min.
Initial 8:10	6.09	2786	310.00	1.06	17.90	-36.8	40.6	150
8:20	6.23	3165	355.00	0.60	15.36	-65.9	40.91	150
8:30	6.29	3116	218.00	0.58	15.25	-72.4	41.20	150
8:40	6.31	2429	190.00	0.61	15.25	-75.1	41.31	150
8:50	6.32	2284	160.00	0.60	15.21	-82.5	41.40	150
9:00	6.32	2202	135.00	0.67	15.46	-86.3	41.40	100
9:10	6.35	2657	120.00	0.74	15.96	-89.7	41.38	100
9:20	6.42	2707	110.00	0.63	16.01	-92.3	41.36	100
9:30	6.43	2650	92.40	0.62	15.95	-94.5	41.37	125
9:40	6.45	2075	82.50	1.77	16.06	-76.7	41.38	125
9:45	6.48	2175	74.10	0.88	15.98	-77.5	41.38	125
9:50	6.48	2435	60.80	0.66	15.08	-82.1	41.40	100
After Sample	6.68	1967	37.80	1.39	17.48	-72.4	41.41	100

Sampling: Time readings stabilized: 9:50
Sample Start Time: 9:50 Chain of Custody sample time: 9:50
Sample End Time: 10:15 Duration of sample time: 25 min

Collection Method:		Analyses:		Analytical Method:
	Stainless steel bailer	X	VOCs -	TCL VOCs OLC02.1
	Teflon bailer	X	SVOCs	TCL SVOCs OLC02.1
	Disposable bailer	X	Metals	TAL Metals by ILM04.2
	Bladder Pump 100ml		PCB/Pest	
	Peristaltic pump		Physical	
	Dedicated Tubing		Other	

Observations

Weather/Temperature: Breezy, cool ~65^{0}F
Sample Description: Turbidity: (circle one) HIGH MODERATE LOW
Free Product? yes ___ no X describe
Sheen? yes ___ no X describe
Odor? yes ___ no X describe

Comments:
Drained flow through cell at 9:40. Some green residue was noted on the WLI tape.

Collected daily field blank ID: FB083006 Time: 10:35