GW - 080

AGWMR

06/10/2011

GW080

Cypress Engineering

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June 10, 2011

Mr. Glenn von Gonten
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Report of Groundwater Remediation Activities
Transwestern Pipeline Company
Thoreau Compressor Station
McKinley County, New Mexico
Case # GW-080

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Dear Glenn,

The enclosed Report of Groundwater Remediation Activities is submitted for your review and files. This report presents a summary of groundwater monitoring and remediation activities completed since the last report of remediation activities.

If you have any questions or comments regarding this report, please contact me at (281) 797-3420.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment:

Patrick Antonio	NNEPA
Brandon Powell	NMOCD Aztec District Office
Richard Spell	Transwestern (Houston)
Roger Westbrook	Transwestern (Houston ROW)
Larry Campbell	Transwestern (Roswell NM)
Charlie Allen	Transwestern (Station 5)

Report of Groundwater Remediation Activities

Transwestern Pipeline Company
Thoreau Compressor Station
McKinley County, New Mexico

CASE # GW-080

Submitted to:
New Mexico Oil Conservation Division

June 6, 2011

Prepared For:
Transwestern Pipeline Company
6381 North Main Street
Roswell, NM 88201

Prepared by:
Cypress Engineering Services, Inc.
7171 Highway 6 North, Suite 102
Houston, Texas 77095

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1. Introduction

The last report of groundwater remediation activities covered activities completed through December 2009. This report presents a summary of monitoring and remediation activities completed between January 2010 and December 2010.

2. Groundwater Monitoring Activities

2.1 Groundwater Sampling Events

One annual sampling event was completed since the last report of remediation activities. This event was completed on May 18, 2010.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase-separated hydrocarbon (PSH) was present, was determined for each monitoring well. The measured depth to water and the corresponding water table elevation for each monitoring well are presented in Table 1.

Groundwater samples were collected from selected monitoring wells at the site and delivered to a laboratory for analysis by EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX), and by EPA Method 8082 for Polychlorinated Biphenyls (PCBs) in accordance with the sampling analysis plan. A summary of field measured groundwater quality parameters (pH, temperature, electrical conductivity, and dissolved oxygen) obtained in the course of sampling is presented in Table 2. An updated summary of analytical results for BTEX and PCB compounds is presented in Tables 3 and 4, respectively. An updated summary of the quality assurance program results is presented in Table 5. A copy of the laboratory report for the annual groundwater sampling event is included in an appendix to this report.

2.2 Results/Conclusions from Groundwater Sampling Events

2.2.1 Occurrence and Direction of Groundwater Flow

A water table elevation map based on measurements obtained in the course of the May 2010 sampling event is included as Figure 3. The apparent direction of groundwater flow is toward the south and is consistent with water table elevation maps previously developed for this site.

The water table elevation of the shallow water zone continues to decline as it has since 1993. This is shown graphically in hydrographs for monitor wells 5-03B, 5-34B, and 5-16B, included as Figures 9-11, respectively. The saturated screen depth for each well is also indicated in the hydrographs. The saturated screen depth is defined as the height of water above the bottom of the well screen. Well 5-03B is located about 400 feet north-northeast (upgradient) of the hydrocarbon release area; the saturated screen depth has declined 10.6 feet over the last 17 years (from 13.7 feet in April 1993 to 3.1 feet in May 2010). Well 5-34B is located in the immediate vicinity of the release area; the saturated screen depth has declined 14.8 feet over the last 17 years (from 16.1 feet in April 1993 to 1.3 feet in May 2010). Well 5-16B is located about 200 feet south-southeast (downgradient) of the release area; the saturated screen depth has declined 12.1 feet over the last 17 years (from 19.8 feet in April 1993 to 7.7 feet in May 2010).

2.2.2 Lateral Extent of Phase Separated Hydrocarbon

The occurrence of Phase-Separated Hydrocarbon (PSH) at the site has been very limited. Initially, PSH had not been detected in any monitoring wells beginning with the first routine groundwater monitoring event in August 1990 through February 1997. PSH was first detected in May 1997 when a sheen of PSH was detected in well 5-35B. Well 5-35B was the first well utilized for soil vapor extraction (SVE) as a component of the remediation system put in-service in December 1994.

PSH was first detected in a measurable accumulation in October 1999 when 0.05 feet (approximately 1/2 inch) of PSH was measured in well 5-02B, 0.02 feet (1/4 inch) in well 5-34B, and 0.01 feet (1/8 inch) in well 5-35B. All three of these wells were being utilized for SVE as a component of the remediation system that had been expanded to include five SVE wells in April 1996. PSH had not been measured in any of these wells prior to implementation of the remediation system. The presence of PSH in these wells is more likely associated the preferential accumulation of PSH in low pressure areas, such as soil vapor extraction wells, and is not likely indicative of PSH present at the water table outside of the immediate vicinity of the well screen.

The occurrence of PSH is currently defined by the presence of PSH at the water table in wells 5-02C and 5-34B, and the absence of PSH in all other wells. The lateral distribution of PSH measured in wells in the course of the May 2010 sampling event is presented in Figure 4. Wells 5-02C and 5-34B are the only wells that have indicated the presence of PSH over the course of the last three annual sampling events (September 2008, August 2009 & May 2010). In May 2010, 0.05 feet of accumulated PSH was measured in well 5-02C and 0.05 feet in well 5-34B. Note that these measurements were made approximately seven months after accumulated PSH had been removed from the wells using absorbents. The process for removing PSH using absorbents is described in the paragraph below. A record of depth to PSH and water level measurements is presented in Table 1. Measured depth to PSH, depth to water, and accumulated PSH thickness versus time for wells 5-02C and 5-34B are also presented graphically in Figures 12 and 13.

Hydrocarbon absorbent socks (*SoakEase*) were used to remove any accumulated PSH from wells 5-34B, 5-02C, and SVE-3 for the purpose of evaluating the potential re-accumulation rate of PSH into these wells. Absorbent socks were lowered into each well during the monthly O&M site visit on July 2, 2010. The absorbent socks were retrieved from the wells during each monthly O&M site visit for inspection. Absorbent socks that appeared reusable were then lowered again into the well. Socks that did not appear reusable were discarded and a replacement was lowered into the well. This process continued with each monthly O&M site visit until the last site visit for the year on November 1, 2010. On this date the absorbent socks were removed from the wells and not replaced. Also on this date, each well was checked using an oil/water interface probe and none of the wells indicated a measurable accumulation of PSH. These three wells will be checked again during the next annual groundwater monitoring event scheduled for July 2011. Any new accumulation of PSH will provide an indication of the re-accumulation rate of PSH into these wells during the eight month period between November 2010 and July 2011.

2.2.3 Condition of Affected Groundwater

The primary constituents of concern in affected groundwater are benzene and PCBs. The lateral distribution of benzene in groundwater is presented in Figure 5; both the current lateral extent and the historic maximum lateral extent are indicated.

Groundwater monitoring results have indicated that remediation efforts and natural processes, in particular the aerobic biodegradation of benzene, have substantially reduced the area affected by dissolved phase benzene in groundwater. Presently, affected groundwater extends no more than about 250 feet south of the Transwestern property line; whereas in 1992, affected groundwater extended as much as 900 feet south of the property line. Likewise, the estimated area affected with dissolved phase benzene declined from a historic maximum extent of approximately 4.4 acres to the present extent of approximately 0.9 acres; a reduction in area of about 80%.

The detection of low concentrations of PCBs has continued for samples collected from monitoring wells 5-06C, and 5-59. PCBs had not been detected in samples collected from well 5-01C since May 21, 2003. PCBs had not been detected in samples collected from well 5-60 located just 20 feet west of well 5-06C. In addition, PCBs had not been detected in samples collected from well 5-17B located 100 feet downgradient of well 5-06C. The lateral distribution of PCBs in groundwater is presented in Figure 6. A concentration history plot for PCBs in groundwater is presented in Figure 7. Prior to around May 2003, the concentration of PCBs measured in groundwater samples was somewhat erratic. During the period since May 2003, the concentration of PCBs has been relatively low (maximum of 11 ug/L) and considerably more stabilized.

3. Status of Remediation Activities

3.1 Remediation Activities Completed through December 2010

The following remediation activities have been completed since the last report of groundwater remediation activities:

1) Operation of the SVE system was limited to the warmer weather months because condensed water collecting in the SVE conveyance lines during cold weather make the system ineffective. The SVE system was restarted on May 19, 2010 and shut-down on November 1, 2010. A copy of the routine operation and maintenance reports for the SVE system are included in an appendix to this report.

2) Six vapor samples were collected from the SVE system during 2010. A summary of laboratory results for the SVE system is presented in Table 8. A concentration history plot for SVE vapor samples is included as Figure 14. It is apparent from the concentration history plot that the concentration of Volatile Organic Compounds (VOCs) has declined significantly since the remediation system was first placed in-service in December 1994. Laboratory results for SVE system samples also indicate that during 2010, the system was removing VOCs from the subsurface at an estimated rate of 13 gallons equivalent per month.

3) A small amount of accumulated PSH was removed from wells 5-34B, 5-02C, and SVE-3 using hydrocarbon absorbent socks (*SoakEase*). This process was described in Section 2.2.2 of this report.

3.2 Remediation Activities Planned for 2011

SVE system monitoring results indicate that the VOC content in extracted vapor has declined from an initial concentration of about 1800 ug/L in 1998 to a concentration of about 160 ug/L in 2010 (a 90% reduction in VOC content). The average VOC content measured in 2010 of 160 ug/L and the system design extraction rate of 200 scfm results in an estimated equivalent total liquid recovery rate of about 13 gallons per month. During 2010, the SVE system was configured to utilize five wells for extraction of hydrocarbon laden vapors; this translates to an average VOC recovery rate of about 2.6 gallons per well per month. The low effective recovery rate indicates that operation of the SVE system is no longer an effective means for continued remediation at the site. Based on this conclusion, Transwestern does not plan to operate the SVE system during 2011.

3.3 Other Activities Planned for 2011

Transwestern intends to complete an evaluation of the perched water zone to determine if the zone is by definition an "aquifer" and if the remaining water is by definition "ground water". The Navajo Nation Safe Drinking Water Act defines "aquifer" as follows: "aquifer means a geological formation, group of formations, or part of a formation that is capable of yielding a significant amount of water to a well or spring." Similarly, New Mexico regulation defines "ground water" as follows: "ground water means interstitial water which occurs in saturated earth material and which is capable of entering a well in sufficient amounts to be utilized as a water supply." The quantity of water in the perched water zone has declined substantially since monitoring of shallow groundwater began in 1989. It is suspected that much of the water found in the perched water zone originated from fresh water losses from facility operation. Water losses would have been from water uses such as irrigation of lawns and domestic water discharge to septic systems and also from leaks in the water supply system. Water losses would have declined as residential use of the property declined and leaks in the water supply system were repaired.

4. Planned Modifications

4.1 Planned Modifications to the Routine Groundwater Sampling Plan

There are no planned changes to the sampling analysis plan (SAP). Annual sampling will continue in accordance with the SAP presented in Table 6.

4.2 Planned Modifications to the Remediation System

4.2.1 Physical Modifications to the System

There are no planned physical modifications to the remediation system.

4.2.2 Operational Modifications to the System

As described in section 3.2 above, the low effective recovery rate of the SVE system indicates that operation of the system is no longer an effective means for continued remediation at the site. Based on this conclusion, Transwestern does not intend to operate the SVE system during 2011. Subsequent to the planned July 2011 groundwater sampling event, Transwestern will again

evaluate the need for continued active remediation measures, such as restarting the SVE system, and will present any changes in planned operation of the system in the next annual report of groundwater remediation activities to be submitted in 2012.

4.3 Planned Reporting Frequency

Reporting will continue to be done on an annual basis.

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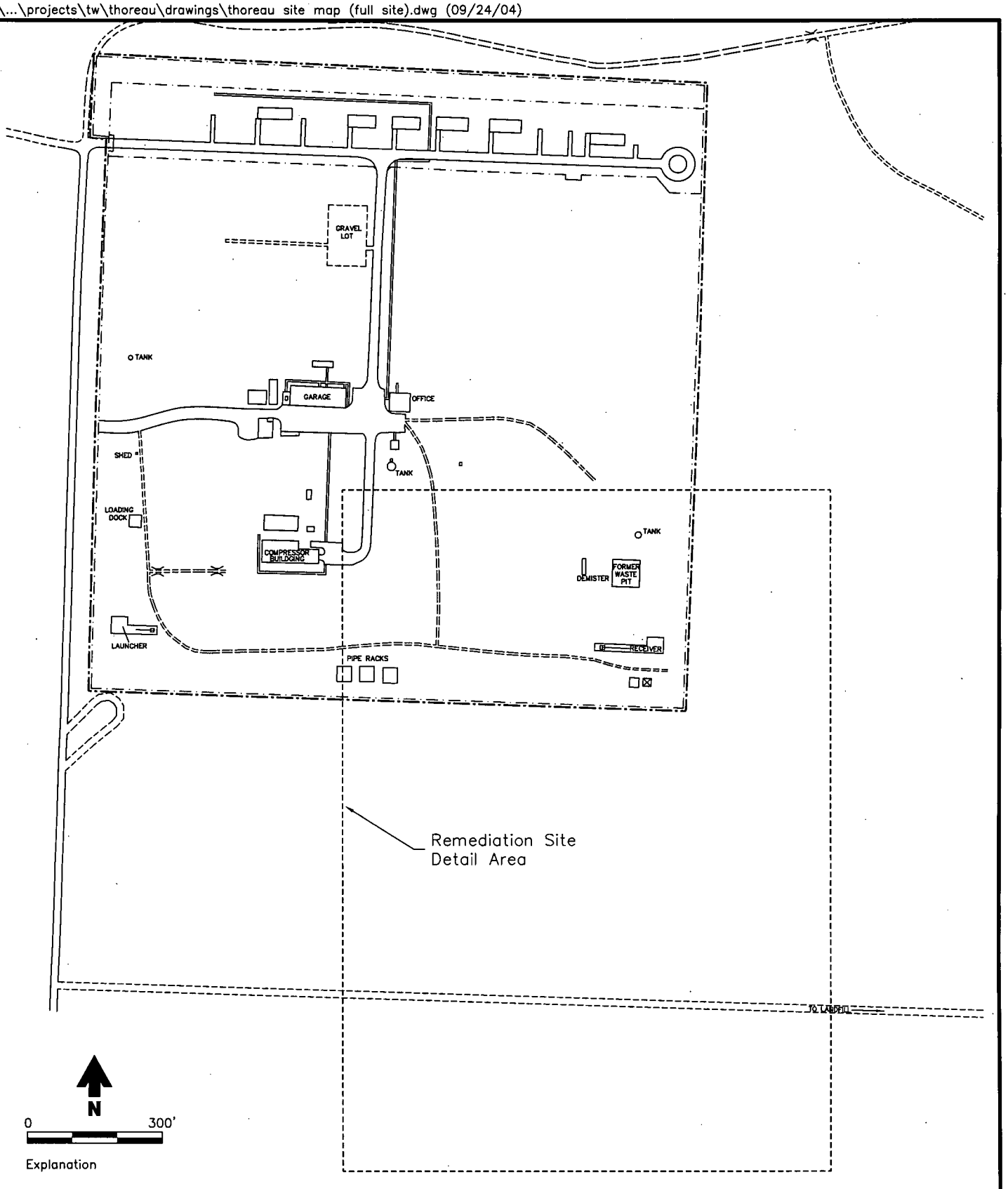

THOREAU COMPRESSOR STATION

Facility Site Map

Figure 1

CYPRESS ENGINEERING SERVICES, INC.

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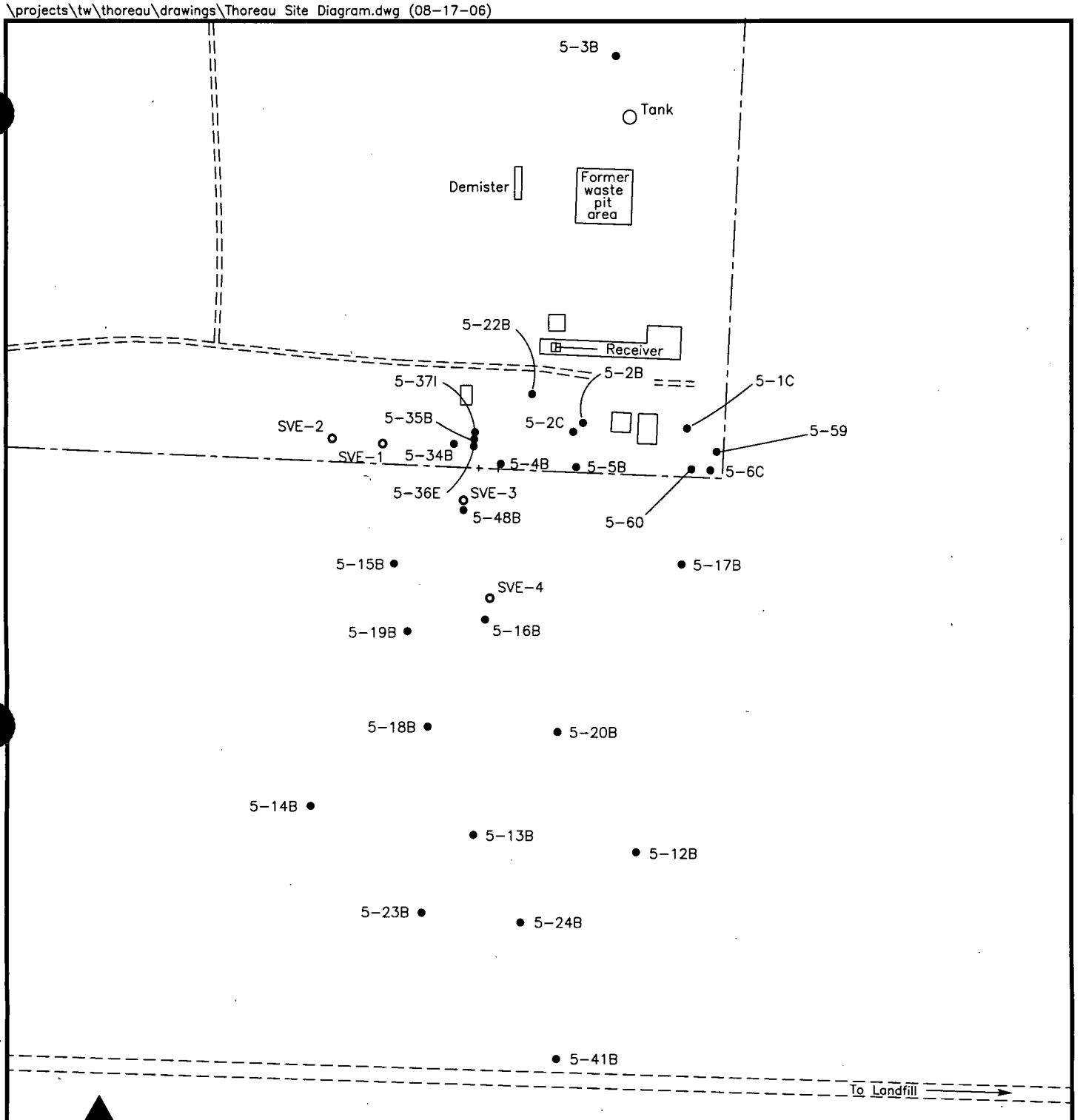

Explanation

- Monitor well
- Soil vapor extraction well
- Compressor station boundary

THOREAU COMPRESSOR STATION

Monitor Well & SVE Well Locations

Figure 2

CYPRESS ENGINEERING SERVICES, INC.

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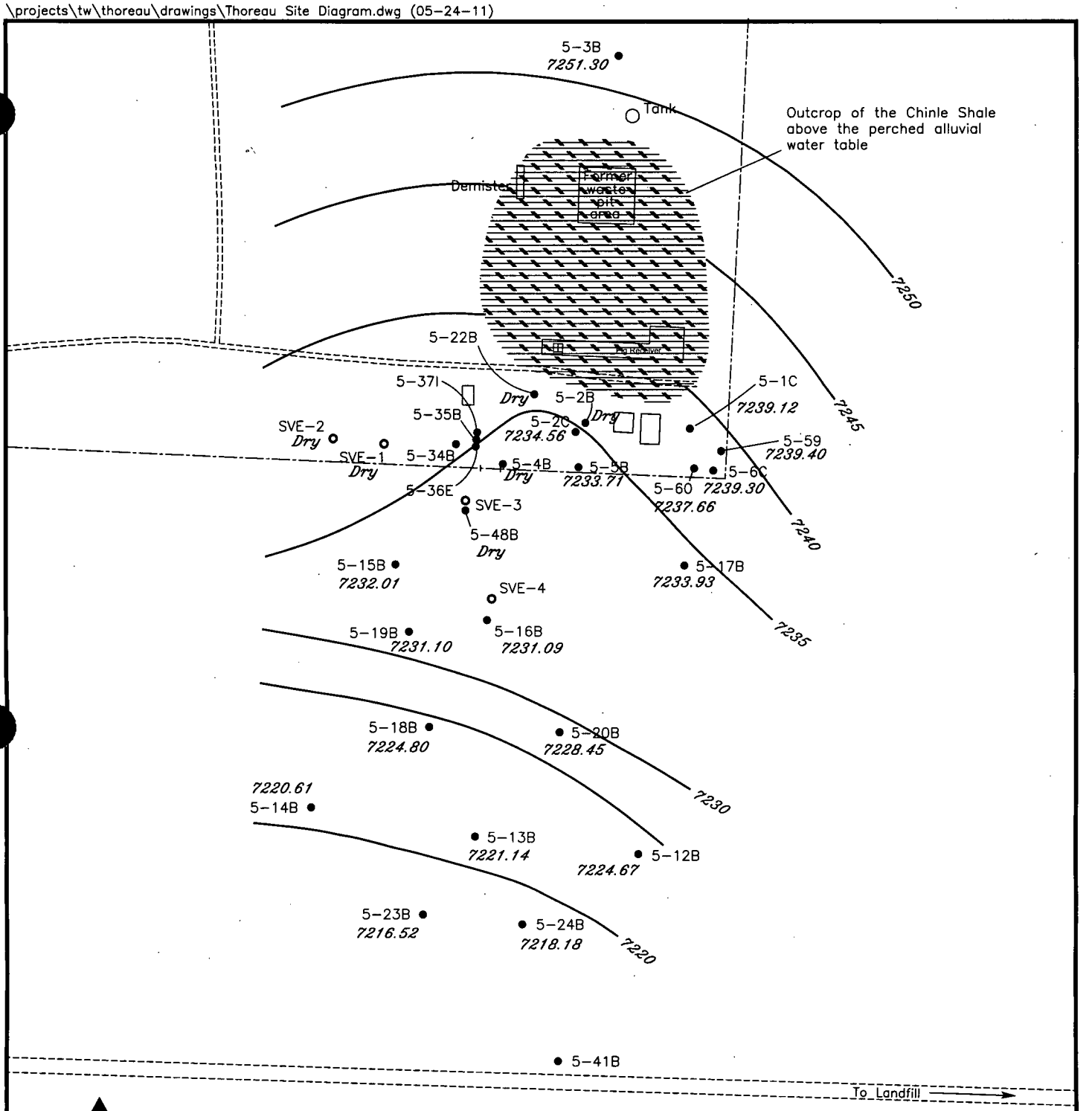

THOREAU COMPRESSOR STATION

Ground Water Surface Elevation in the Perched Alluvial Aquifer

May 2010

Figure 3

CYPRESS ENGINEERING SERVICES, INC.

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THOREAU COMPRESSOR STATION

Occurrence of PSH in the Perched Alluvial Aquifer

May 2010

Figure 4

CYPRESS ENGINEERING SERVICES, INC.

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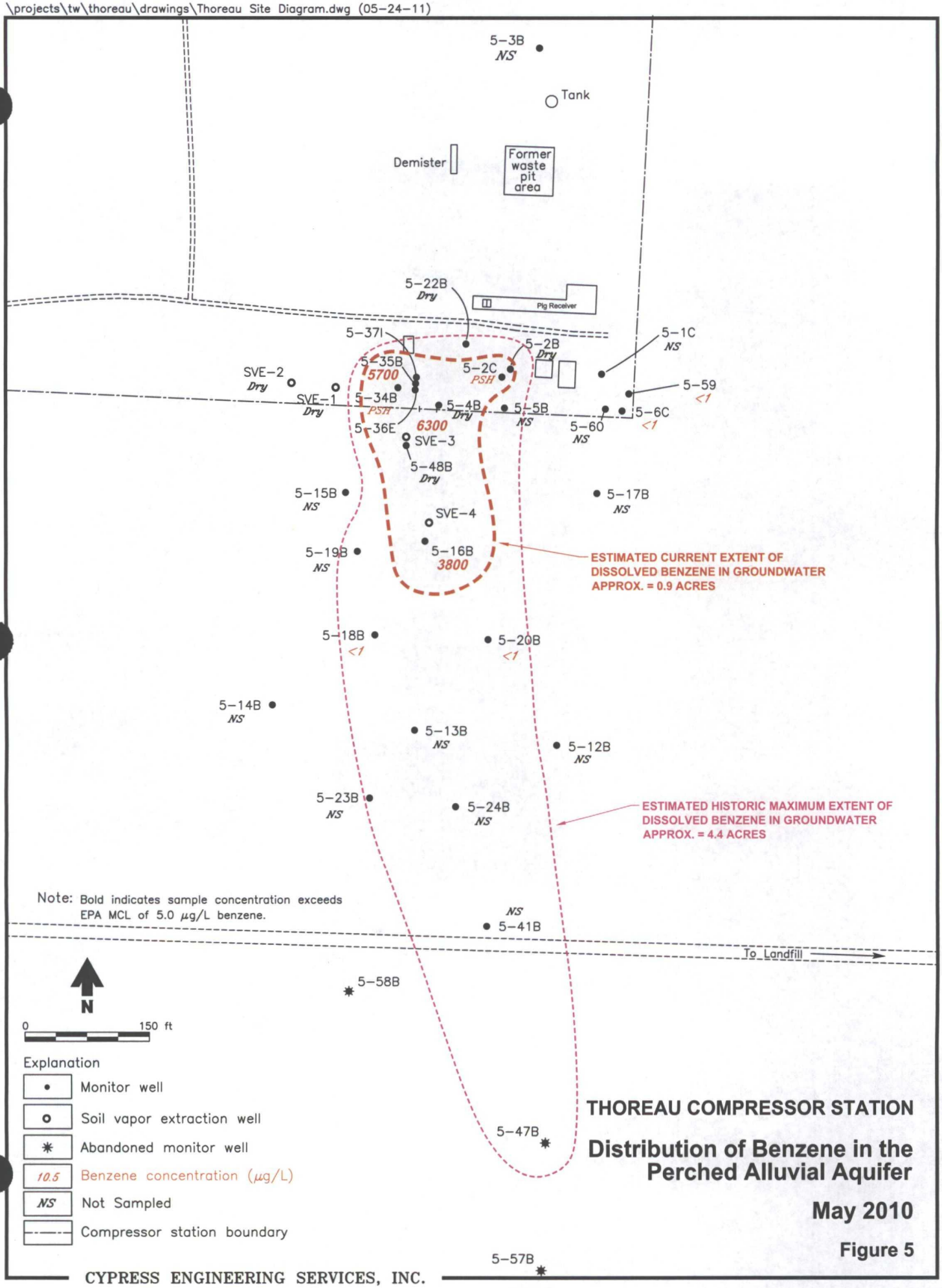

THOREAU COMPRESSOR STATION

Distribution of Benzene in the Perched Alluvial Aquifer

May 2010

Figure 5

CYPRESS ENGINEERING SERVICES, INC.

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THOREAU COMPRESSOR STATION

Distribution of PCBs in the Perched Alluvial Aquifer

May 2010

Figure 6

CYPRESS ENGINEERING SERVICES, INC.

Concentration History for PCBs in Groundwater
Thoreau Station Remediation Site

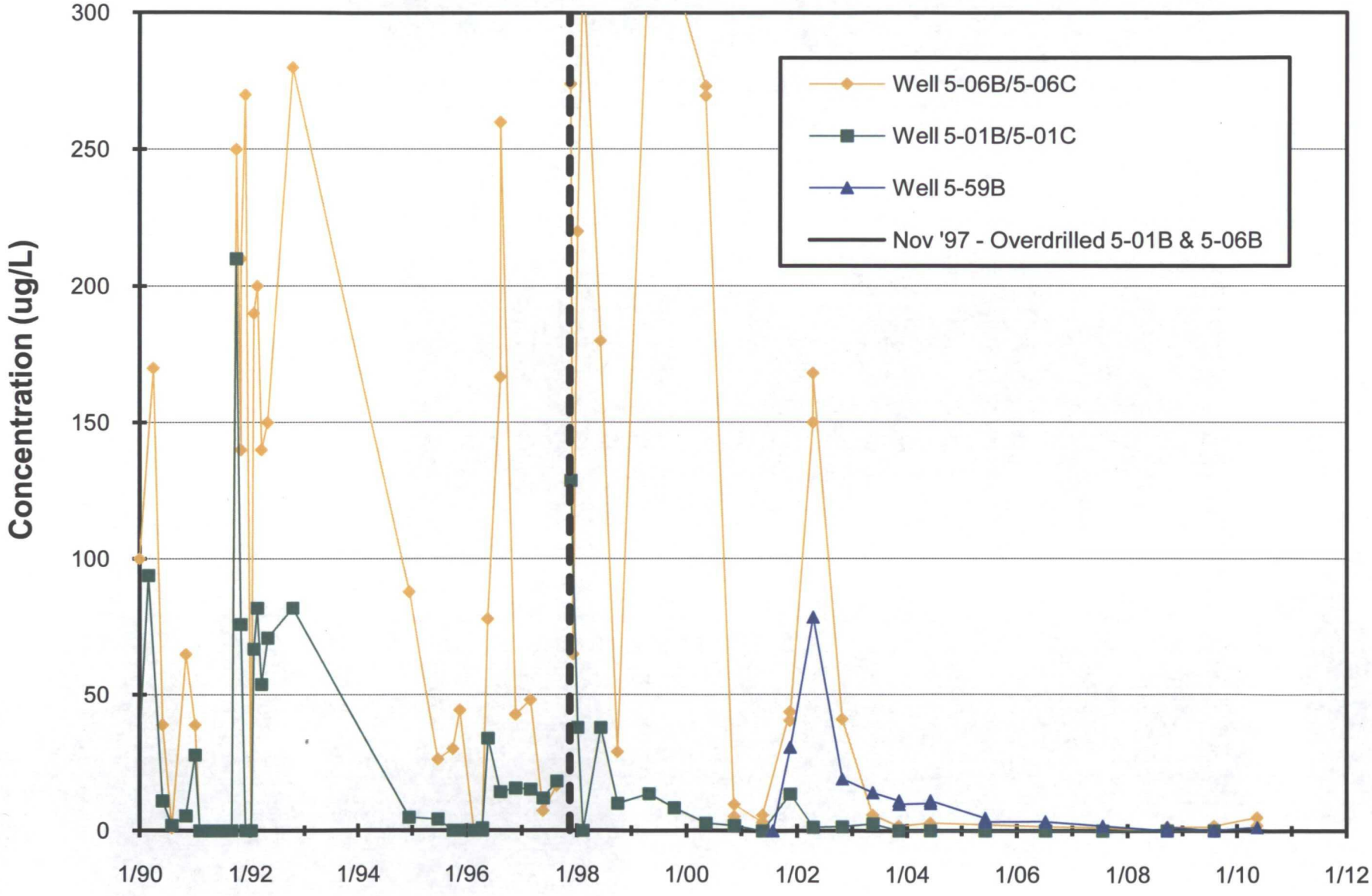
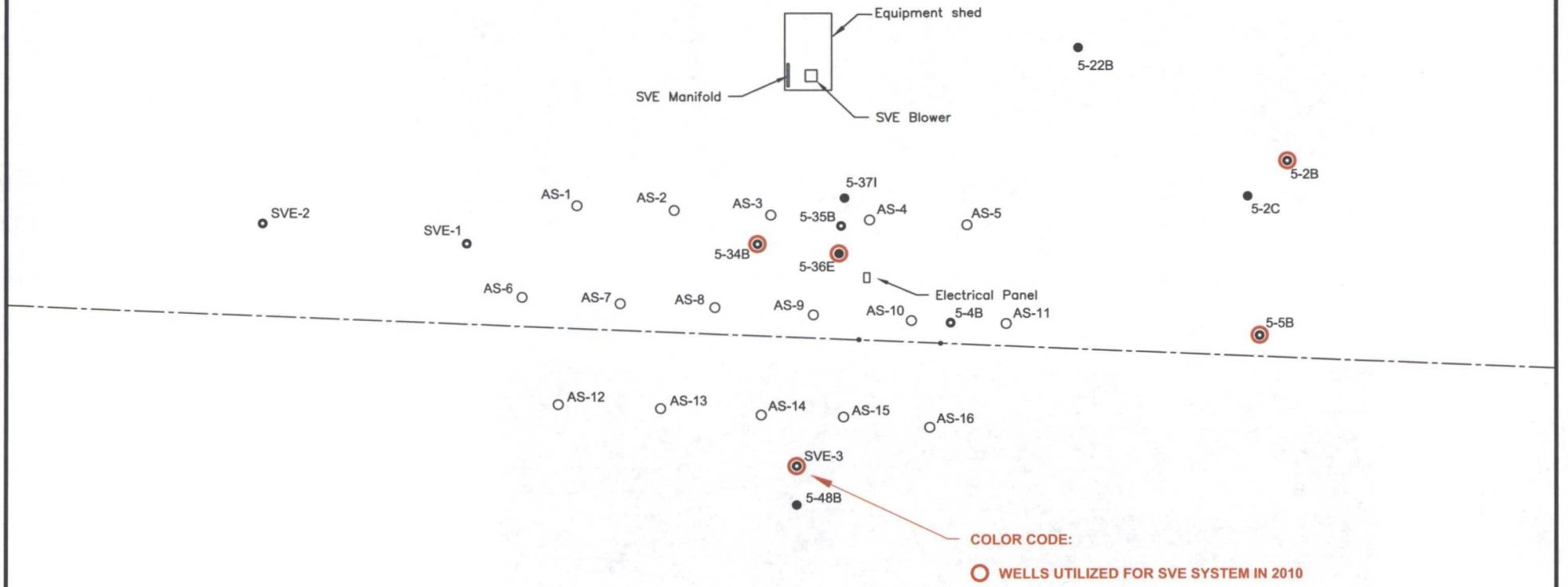


Figure 7

f:\...\projects\th...reau\drawings\thoreau remediation system layout.dwg (06/6/11)



THOREAU COMPRESSOR STATION

Remediation System Layout

Figure 8

CYPRESS ENGINEERING SERVICES, INC.

Hydrograph for Monitor Well 5-03B
Thoreau Station Remediation Site

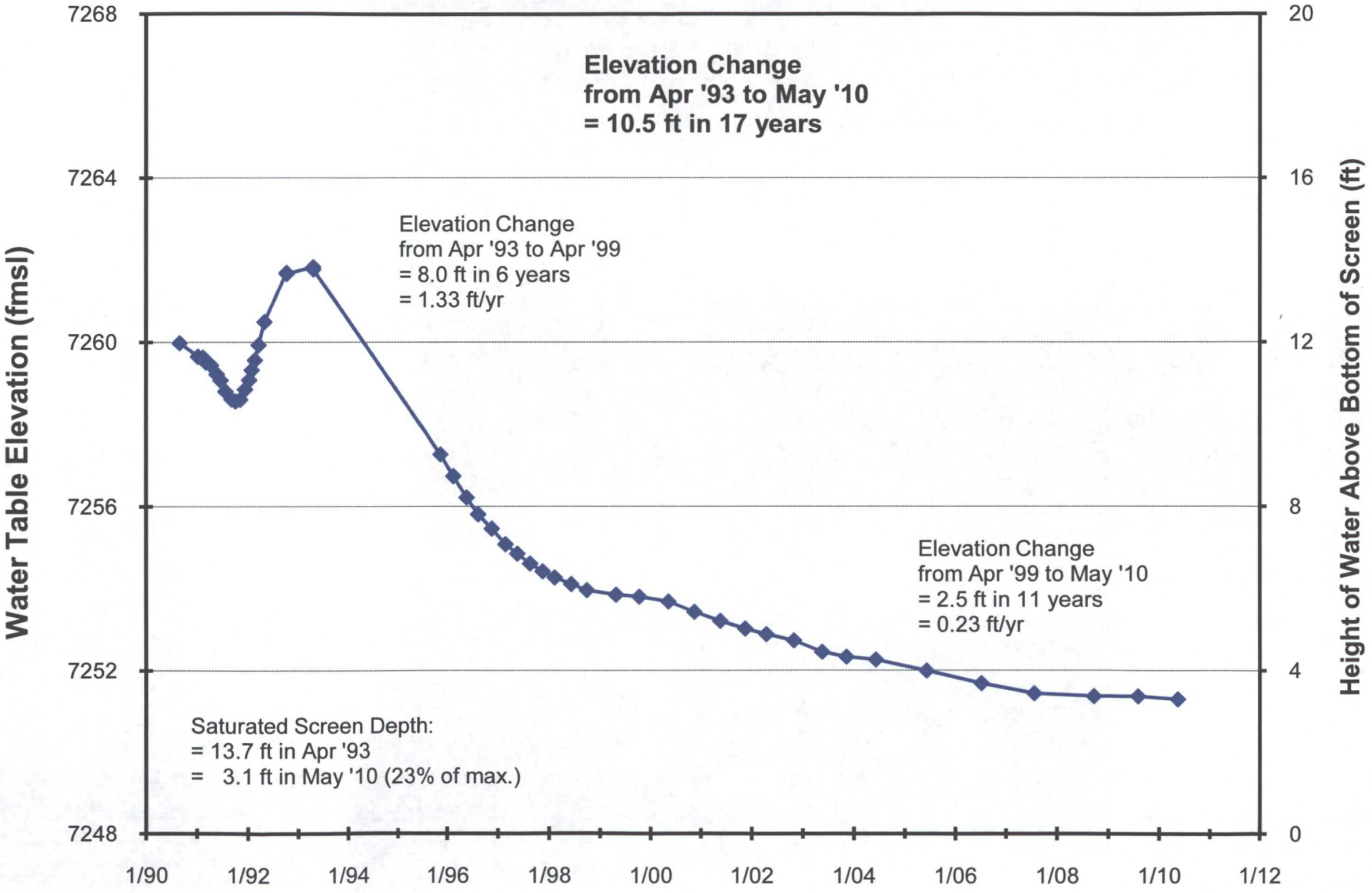


Figure 9

Hydrograph for Monitor Well 5-34B
Thoreau Station Remediation Site

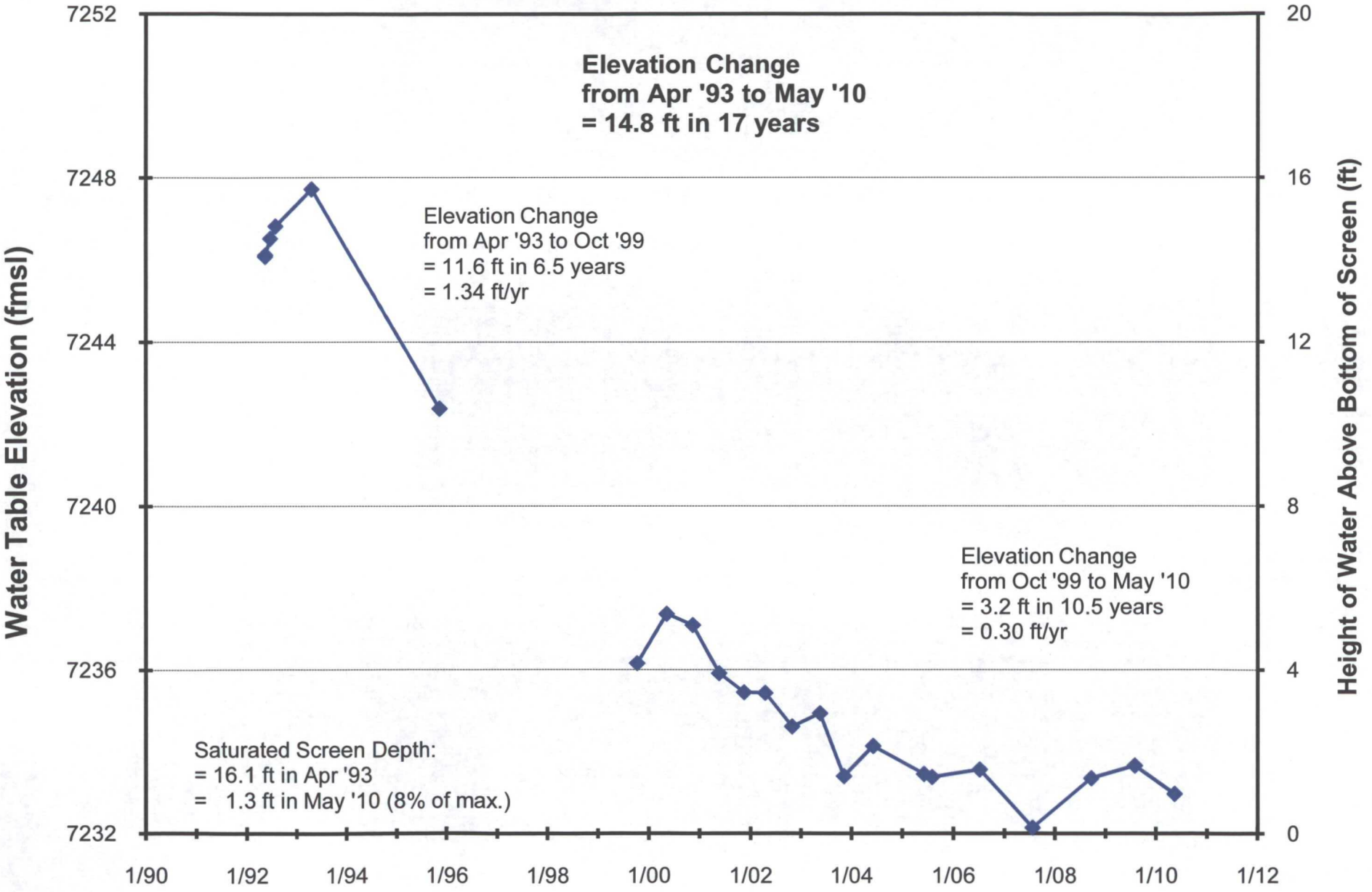


Figure 10

Hydrograph for Monitor Well 5-16B
Thoreau Station Remediation Site

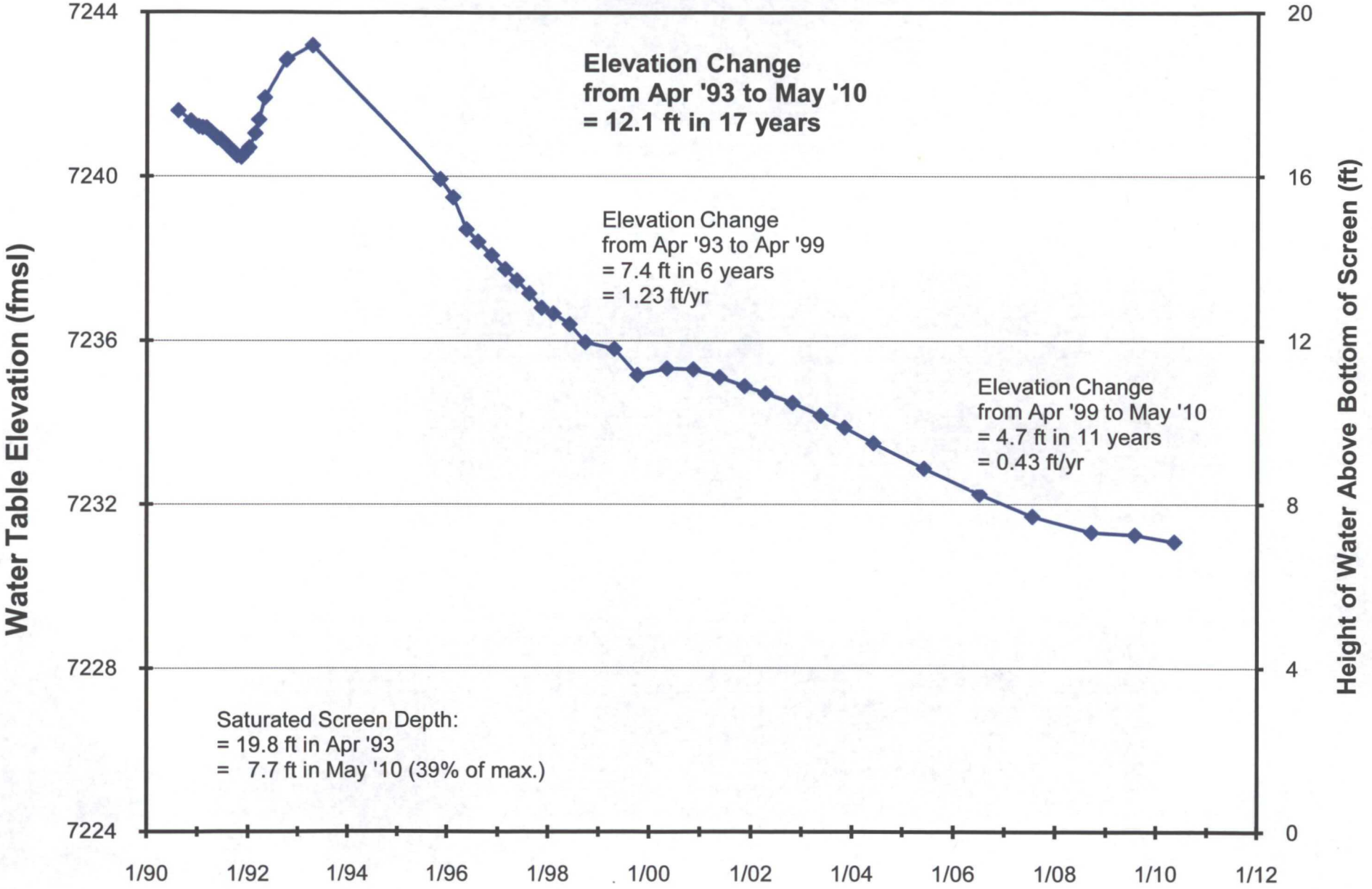


Figure 11

Measured Depth to Water and PSH for Monitor Well 5-02C
Thoreau Station Remediation Site

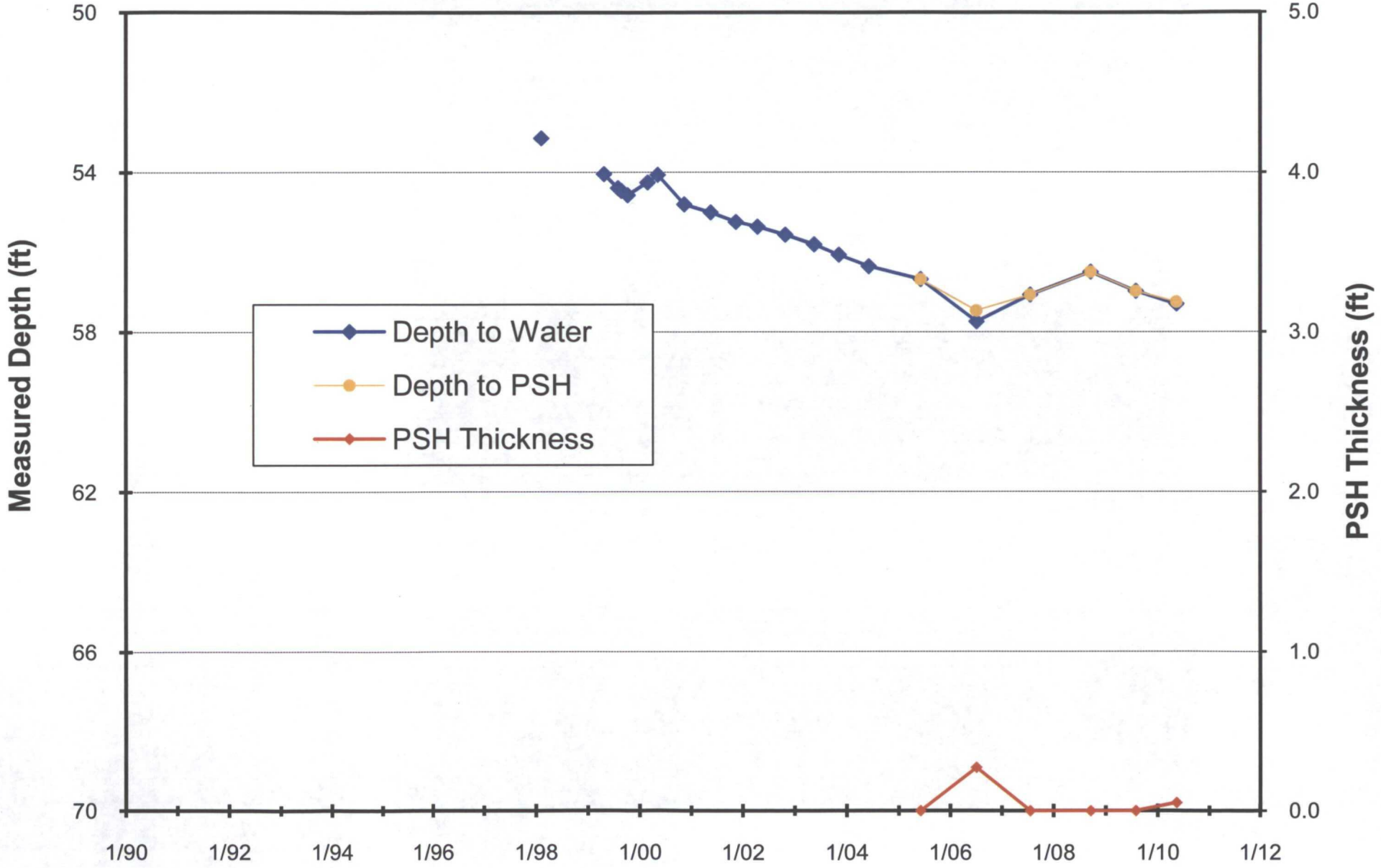


Figure 12

Measured Depth to Water and PSH for Monitor Well 5-34B
Thoreau Station Remediation Site

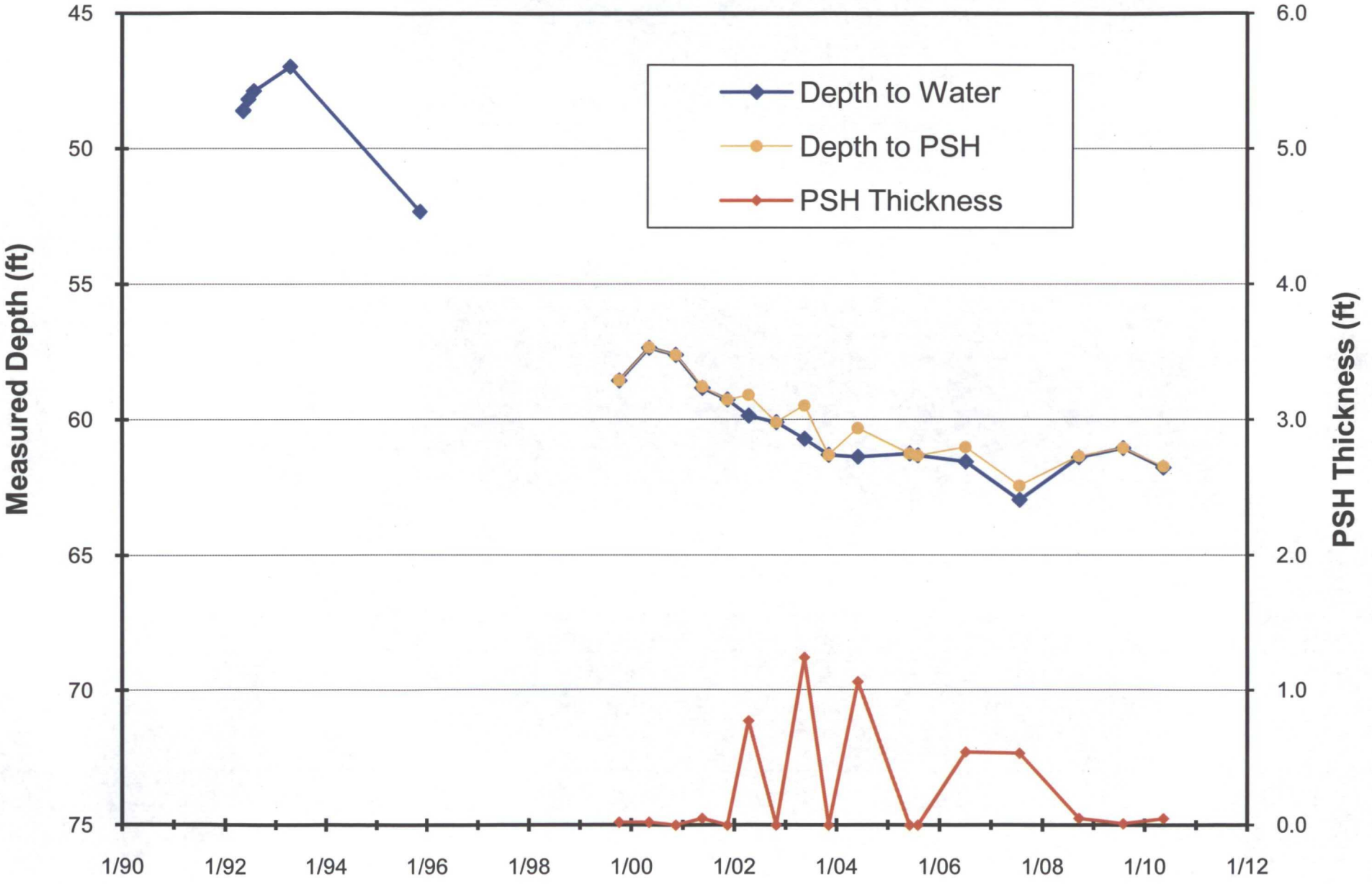


Figure 13

Concentration History for SVE System Vapor Samples
Thoreau Station Remediation Site

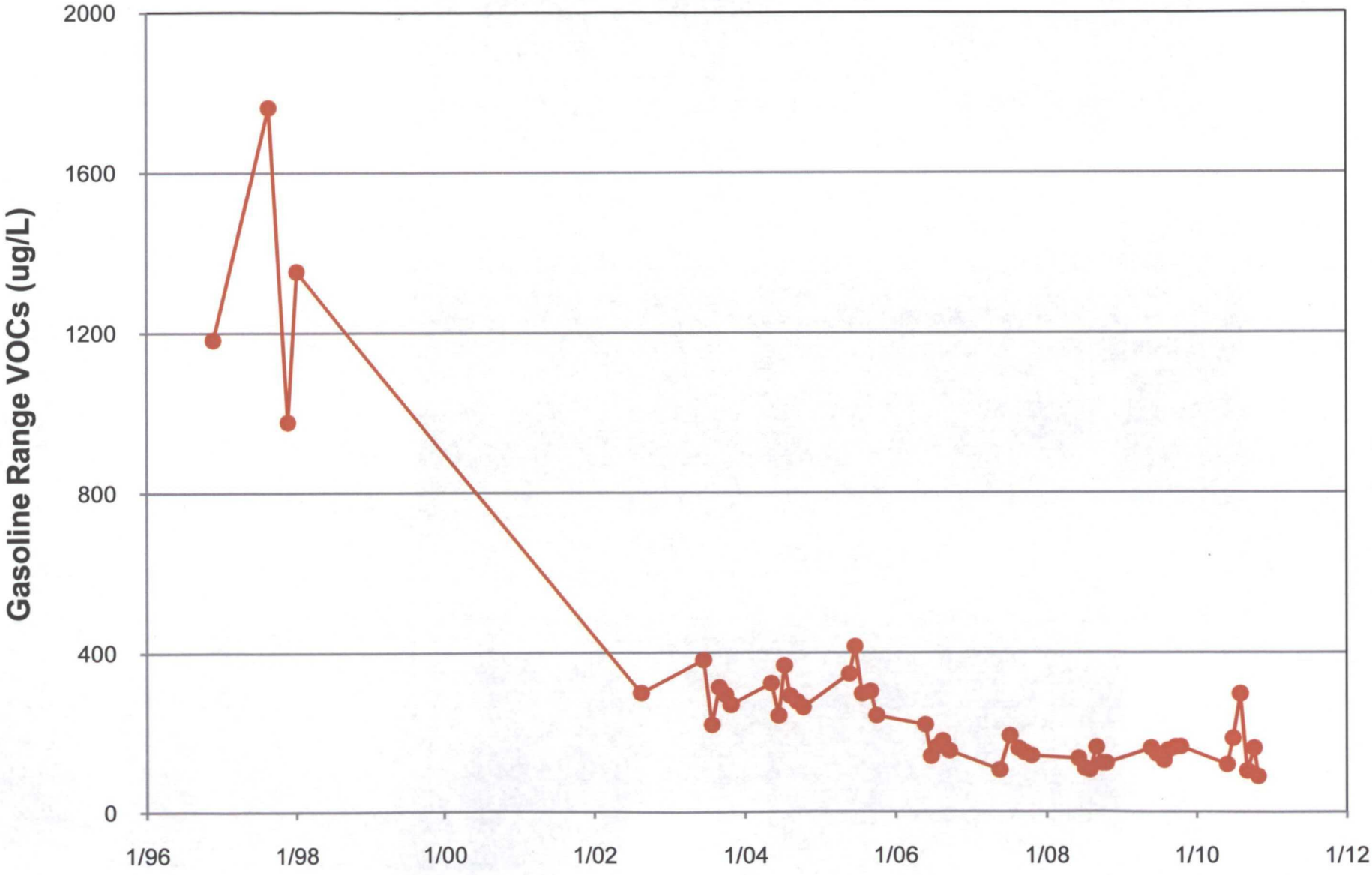


Figure 14

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-01B	7,290.53	08/29/90	---	44.69	---	7245.84
		11/08/90	---	44.70	---	7245.83
		01/08/91	---	44.82	---	7245.71
		02/05/91	---	44.86	---	7245.67
		03/05/91	---	44.91	---	7245.62
		04/10/91	---	44.94	---	7245.59
		05/21/91	---	45.08	---	7245.45
		06/18/91	---	45.15	---	7245.38
		07/23/91	---	45.28	---	7245.25
		09/04/91	---	45.38	---	7245.15
		10/02/91	---	45.52	---	7245.01
		11/06/91	---	45.63	---	7244.90
		12/10/91	---	45.64	---	7244.89
		01/09/92	---	45.61	---	7244.92
		01/27/92	---	45.53	---	7245.00
		02/20/92	---	45.39	---	7245.14
		03/18/92	---	45.18	---	7245.35
		04/29/92	---	44.78	---	7245.75
		10/06/92	---	43.71	---	7246.82
		10/14/92	---	43.67	---	7246.86
		04/19/93	---	42.96	---	7247.57
		11/14/95	---	46.16	---	7244.37
		02/15/96	---	46.64	---	7243.89
		05/21/96	---	47.32	---	7243.21
		11/18/96	---	47.91	---	7242.62
		02/24/97	---	48.31	---	7242.22
		05/19/97	---	48.57	---	7241.96
		08/18/97	---	48.77	---	7241.76
		11/16/97	---	49.03	---	7241.50
5-01C	7,292.11	02/10/98	---	TP	---	---
		04/27/99	---	TP	---	---
		05/10/00	---	51.45	---	7240.66
		11/14/00	---	51.73	---	7240.38
		05/21/01	---	51.85	---	7240.26
		11/16/01	---	52.00	---	7240.11
		04/17/02	---	52.05	---	7240.06
		10/30/02	---	52.23	---	7239.88
		05/21/03	---	52.25	---	7239.86
		11/10/03	---	52.43	---	7239.68
		06/07/04	---	52.53	---	7239.58
		06/08/05	---	52.63	---	7239.48
		07/10/06	---	52.85	---	7239.26
		07/25/07	---	52.93	---	7239.18
		09/22/08	---	53.06	---	7239.05
		08/04/09	---	52.99	---	7239.12
		05/18/10	---	52.99	---	7239.12

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-02B	7,292.06	08/29/90	---	47.60	---	7244.46
		11/08/90	---	47.72	---	7244.34
		01/11/91	---	47.88	---	7244.18
		02/12/91	---	47.90	---	7244.16
		03/05/91	---	47.93	---	7244.13
		04/11/91	---	47.92	---	7244.14
		05/20/91	---	48.14	---	7243.92
		06/18/91	---	48.23	---	7243.83
		07/24/91	---	48.36	---	7243.70
		09/05/91	---	48.55	---	7243.51
		10/03/91	---	48.62	---	7243.44
		11/05/91	---	48.73	---	7243.33
		12/12/91	---	48.68	---	7243.38
		01/09/92	---	48.58	---	7243.48
		01/28/92	---	48.48	---	7243.58
		02/20/92	---	48.27	---	7243.79
		03/19/92	---	47.98	---	7243.79
		04/29/92	---	47.38	---	7244.68
		10/06/92	---	46.09	---	7245.97
		10/14/92	---	46.07	---	7245.99
		04/19/93	---	45.38	---	7246.68
		04/22/93	---	45.36	---	7246.70
		11/14/95	---	49.32	---	7242.74
		02/15/96	---	49.84	---	7242.22
		05/21/96	---	50.47	---	7241.59
		11/21/96	---	51.66	---	7240.40
		02/24/97	---	TP	---	---
	7,293.24 (a)	02/10/98	---	NM	---	---
		10/11/99	55.70	55.75	0.05	7237.53
		05/10/00	---	55.08	---	7238.16
		11/14/00	---	56.09	---	7237.28
		05/21/01	56.03	56.33	0.30	7237.14
		11/16/01	---	56.36	---	7236.94
		04/17/02	56.27	56.33	0.06	7236.96
		10/30/02	---	56.53	---	7236.91
		05/21/03	---	56.07	---	7237.17
		11/10/03	---	56.89	---	7236.35
		06/07/04	---	dry	---	dry
		06/08/05	---	dry	---	dry
		07/10/06	---	dry	---	dry
		07/25/07	---	dry	---	dry
		09/22/08	---	dry	---	dry
		08/04/09	---	dry	---	dry
		05/18/10	---	dry	---	dry

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-02C	7,291.82	02/10/98	---	53.15	---	7238.67
		06/08/98	---	53.36	---	7238.46
		09/29/98	---	53.88	---	7237.94
		04/27/99	---	54.05	---	7237.77
		08/03/99	---	54.40	---	7237.42
		08/27/99	---	54.47	---	7237.35
		10/11/99	---	54.58	---	7237.24
		02/28/00	---	54.26	---	7237.56
		05/10/00	---	54.07	---	7237.75
		11/14/00	---	54.81	---	7237.01
		05/21/01	---	55.01	---	7236.81
		11/16/01	---	55.25	---	7236.57
		04/17/02	---	55.37	---	7236.45
		10/30/02	---	55.57	---	7236.25
		05/21/03	---	55.81	---	7236.01
		11/10/03	---	56.07	---	7235.75
		06/07/04	---	56.36	---	7235.46
		06/08/05	---	56.68	---	7235.14
		07/10/06	57.47	57.74	0.27	7234.29
		07/25/07	sheen	57.07	sheen	7234.75
		09/22/08	sheen	56.50	sheen	7235.32
		08/04/09	sheen	56.98	sheen	7234.84
		05/18/10	57.25	57.30	0.05	7234.56

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-03B	7,303.76	08/29/90	---	43.77	---	7259.99
		01/07/91	---	44.10	---	7259.66
		02/12/91	---	44.12	---	7259.64
		03/05/91	---	44.24	---	7259.52
		04/10/91	---	44.31	---	7259.45
		05/21/91	---	44.53	---	7259.23
		06/18/91	---	44.68	---	7259.08
		07/23/91	---	44.95	---	7258.81
		09/04/91	---	45.14	---	7258.62
		10/02/91	---	45.19	---	7258.57
		11/05/91	---	45.15	---	7258.61
		12/10/91	---	44.90	---	7258.86
		01/09/92	---	44.67	---	7259.09
		01/27/92	---	44.43	---	7259.33
		02/19/92	---	44.19	---	7259.57
		03/17/92	---	43.82	---	7259.94
		04/28/92	---	43.26	---	7260.50
		10/06/92	---	42.06	---	7261.70
		10/07/92	---	42.09	---	7261.67
		04/19/93	---	41.92	---	7261.84
		04/20/93	---	41.98	---	7261.78
		11/14/95	---	46.49	---	7257.27
		02/15/96	---	47.02	---	7256.74
		05/21/96	---	47.54	---	7256.22
		08/12/96	---	47.95	---	7255.81
		11/18/96	---	48.30	---	7255.46
		02/24/97	---	48.68	---	7255.08
		05/19/97	---	48.91	---	7254.85
		08/18/97	---	49.15	---	7254.61
		11/16/97	---	49.34	---	7254.42
		02/10/98	---	49.49	---	7254.27
		06/08/98	---	49.65	---	7254.11
		09/29/98	---	49.80	---	7253.96
		04/27/99	---	49.91	---	7253.85
		10/11/99	---	49.96	---	7253.80
		05/10/00	---	50.08	---	7253.68
		11/14/00	---	50.33	---	7253.43
		05/21/01	---	50.55	---	7253.21
		11/16/01	---	50.74	---	7253.02
		04/17/02	---	50.88	---	7252.88
		10/30/02	---	51.03	---	7252.73
		05/20/03	---	51.31	---	7252.45
		11/10/03	---	51.43	---	7252.33
		06/07/04	---	51.50	---	7252.26
		06/08/05	---	51.77	---	7251.99
		07/10/06	---	52.08	---	7251.68
		07/25/07	---	52.33	---	7251.43
		09/22/08	---	52.40	---	7251.36
		08/04/09	---	52.39	---	7251.37
		05/18/10	---	52.46	---	7251.30

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-04B	7,292.39	08/29/90	---	48.35	---	7244.04
		11/08/90	---	48.42	---	7243.97
		01/11/91	---	48.42	---	7243.97
		01/31/91	---	48.94	---	7243.45
		03/04/91	---	48.68	---	7243.71
		04/12/91	---	48.79	---	7243.60
		05/21/91	---	49.90	---	7242.49
		06/17/91	---	49.00	---	7243.39
		07/24/91	---	49.15	---	7243.24
		09/04/91	---	49.34	---	7243.05
		10/03/91	---	49.44	---	7242.95
		11/05/91	---	49.50	---	7242.89
		12/12/91	---	48.40	---	7243.99
		01/09/92	---	49.23	---	7243.16
		01/28/92	---	49.11	---	7243.28
		02/19/92	---	48.91	---	7243.48
		03/18/92	---	47.22	---	7245.17
		04/28/92	---	46.65	---	7245.74
		10/06/92	---	46.36	---	7246.03
		10/13/92	---	46.35	---	7246.04
		04/19/93	---	45.77	---	7246.62
		04/21/93	---	45.79	---	7246.60
		11/14/95	---	50.21	---	7242.18
		02/15/96	---	50.82	---	7241.57
	7,292.72 (a)	02/10/98	---	54.70	---	7238.02
		10/11/99	---	55.95	---	7236.77
		05/10/00	---	55.53	---	7237.19
		11/14/00	---	56.48	---	7236.24
		05/21/01	---	56.65	---	7236.07
		11/16/01	---	56.91	---	7235.81
		04/17/02	---	57.10	---	7235.62
		10/30/02	---	57.21	---	7235.51
		05/21/03	---	57.57	---	7235.15
		11/10/03	---	57.81	---	7234.91
		06/07/04	---	58.55	---	7234.17
		06/08/05	---	58.56	---	7234.16
		07/10/06	---	dry	---	dry
		07/25/07	---	dry	---	dry
		09/22/08	---	dry	---	dry
		08/04/09	---	dry	---	dry
		05/18/10	---	dry	---	dry

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5 05B	7,290.83	08/29/90	---	47.50	---	7243.33
		11/08/90	---	47.25	---	7243.58
		01/10/91	---	47.14	---	7243.69
		02/05/91	---	47.20	---	7243.63
		03/05/91	---	47.20	---	7243.63
		04/18/91	---	47.34	---	7243.49
		05/21/91	---	47.44	---	7243.39
		06/18/91	---	47.52	---	7243.31
		07/24/91	---	47.69	---	7243.14
		09/05/91	---	47.83	---	7243.00
		10/02/91	---	47.54	---	7243.29
		11/04/91	---	48.02	---	7242.81
		12/10/91	---	47.94	---	7242.89
		01/09/92	---	47.87	---	7242.96
		01/27/92	---	47.74	---	7243.09
		02/19/92	---	47.58	---	7243.25
		03/17/92	---	47.43	---	7243.40
		04/28/92	---	46.61	---	7244.22
		10/06/92	---	45.39	---	7245.44
		10/12/92	---	45.37	---	7245.46
		04/19/93	---	44.76	---	7246.07
		04/21/93	---	44.75	---	7246.08
		11/14/95	---	48.59	---	7242.24
		02/15/96	---	49.12	---	7241.71
		05/21/96	---	49.71	---	7241.12
		08/12/96	---	50.22	---	7240.61
		11/18/96	---	50.65	---	7240.18
		02/24/97	---	51.14	---	7239.69
	7,292.02 (a)	02/10/98	---	53.51	---	7238.51
		10/11/99	---	55.02	---	7237.00
		05/10/00	---	54.61	---	7237.41
		11/14/00	---	55.23	---	7236.79
		05/21/01	---	55.38	---	7236.64
		11/16/01	---	55.61	---	7236.41
		04/17/02	---	55.76	---	7236.26
		10/30/02	---	56.01	---	7236.01
		05/21/03	---	56.27	---	7235.75
		11/10/03	---	56.53	---	7235.49
		06/07/04	---	56.85	---	7235.17
		06/08/05	---	57.29	---	7234.73
		07/10/06	---	57.74	---	7234.28
		07/25/07	---	57.96	---	7234.06
		09/22/08	---	57.85	---	7234.17
		08/04/09	---	57.15	---	7234.87
		05/18/10	---	58.31	---	7233.71

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-06B	7,289.30	08/29/90	---	43.47	---	7245.83
		11/08/90	---	43.24	---	7246.06
		01/08/91	---	43.42	---	7245.88
		02/12/91	---	43.50	---	7245.80
		03/05/91	---	43.50	---	7245.80
		04/18/91	---	43.61	---	7245.69
		05/21/91	---	43.66	---	7245.64
		06/18/91	---	43.74	---	7245.56
		07/23/91	---	43.83	---	7245.47
		09/05/91	---	44.00	---	7245.30
		10/03/91	---	44.06	---	7245.24
		11/05/91	---	44.16	---	7245.14
		12/10/91	---	44.17	---	7245.13
		01/09/92	---	44.16	---	7245.14
		01/27/92	---	44.08	---	7245.22
		02/20/92	---	43.94	---	7245.36
		03/18/92	---	43.76	---	7245.54
		04/29/92	---	43.43	---	7245.87
		10/06/92	---	42.52	---	7246.78
		10/14/92	---	42.49	---	7246.81
		04/19/93	---	41.94	---	7247.36
		11/14/95	---	44.64	---	7244.66
		02/15/96	---	44.99	---	7244.31
		05/21/96	---	45.41	---	7243.89
		08/12/96	---	45.65	---	7243.65
		11/18/96	---	45.92	---	7243.38
		02/24/97	---	46.30	---	7243.00
		05/19/97	---	46.54	---	7242.76
		08/18/97	---	46.73	---	7242.57
		11/16/97	---	47.01	---	7242.29
5-06C	7,291.46	02/10/98	---	49.31	---	7242.15
		06/08/98	---	49.52	---	7241.94
		09/29/98	---	49.78	---	7241.68
		04/27/99	---	50.03	---	7241.43
		08/03/99	---	50.15	---	7241.31
		08/27/99	---	50.23	---	7241.23
		10/11/99	---	50.05	---	7241.41
		02/28/00	---	50.18	---	7241.28
		05/10/00	---	50.18	---	7241.28
		11/14/00	---	50.47	---	7240.99
		05/21/01	---	50.62	---	7240.84
		11/16/01	---	49.81	---	7241.65
		04/17/02	---	50.93	---	7240.53
		10/30/02	---	51.11	---	7240.35
		05/21/03	---	51.19	---	7240.27
		11/10/03	---	51.37	---	7240.09
		06/07/04	---	51.45	---	7240.01
		06/08/05	---	51.61	---	7239.85
		07/10/06	---	51.90	---	7239.56
		07/25/07	---	52.09	---	7239.37
		09/22/08	---	52.26	---	7239.20
		08/04/09	---	52.26	---	7239.20
		05/18/10	---	52.16	---	7239.30

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-12B	7,279.61	08/14/90	---	48.85	---	7230.76
		11/15/90	---	48.92	---	7230.69
		01/09/91	---	48.96	---	7230.65
		02/13/91	---	49.00	---	7230.61
		03/07/91	---	49.00	---	7230.61
		04/12/91	---	49.05	---	7230.56
		05/22/91	---	49.12	---	7230.49
		06/19/91	---	49.20	---	7230.41
		07/25/91	---	49.27	---	7230.34
		09/16/91	---	49.37	---	7230.24
		10/09/91	---	49.43	---	7230.18
		01/07/92	---	49.49	---	7230.12
		04/30/92	---	49.07	---	7230.54
		10/06/92	---	48.27	---	7231.34
		10/08/92	---	48.28	---	7231.34
		04/19/93	---	47.45	---	7232.16
		11/14/95	---	49.71	---	7229.90
		02/15/96	---	50.02	---	7229.59
		05/21/96	---	50.31	---	7229.30
		08/12/96	---	50.61	---	7229.00
		11/18/96	---	50.89	---	7228.72
		02/24/97	---	51.24	---	7228.37
		05/19/97	---	51.49	---	7228.12
		08/18/97	---	51.78	---	7227.83
		11/16/97	---	52.07	---	7227.54
		02/10/98	---	52.28	---	7227.33
		06/08/98	---	52.51	---	7227.10
		09/29/98	---	52.78	---	7226.83
		04/27/99	---	53.11	---	7226.50
		10/11/99	---	53.37	---	7226.24
		05/10/00	---	53.36	---	7226.25
		05/21/01	---	53.14	---	7226.47
		11/16/01	---	53.77	---	7225.84
		04/17/02	---	53.68	---	7225.93
		10/30/02	---	53.89	---	7225.72
		05/20/03	---	54.00	---	7225.61
		11/10/03	---	54.09	---	7225.52
		06/07/04	---	54.15	---	7225.46
		06/08/05	---	54.41	---	7225.20
		07/10/06	---	54.60	---	7225.01
		07/25/07	---	54.79	---	7224.82
		09/22/08	---	54.90	---	7224.71
		08/04/09	---	54.95	---	7224.66
		05/18/10	---	54.94	---	7224.67

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-13B	7,282.43	08/14/90	---	52.43	---	7230.00
		11/15/90	---	52.76	---	7229.67
		01/09/91	---	52.82	---	7229.61
		02/07/91	---	52.89	---	7229.54
		03/07/91	---	52.92	---	7229.51
		04/12/91	---	53.00	---	7229.43
		05/22/91	---	53.06	---	7229.37
		06/19/91	---	53.15	---	7229.28
		07/26/91	---	53.26	---	7229.17
		09/16/91	---	53.36	---	7229.07
		10/10/91	---	53.42	---	7229.01
		01/08/92	---	53.58	---	7228.85
		05/01/92	---	52.88	---	7229.55
		10/06/92	---	51.80	---	7230.63
		10/13/92	---	51.78	---	7230.65
		04/19/93	---	51.08	---	7231.35
		11/14/95	---	53.85	---	7228.58
		02/15/96	---	54.18	---	7228.25
		05/21/96	---	54.52	---	7227.91
		08/12/96	---	54.81	---	7227.62
		11/18/96	---	55.05	---	7227.38
		02/24/97	---	55.37	---	7227.06
		05/19/97	---	55.60	---	7226.83
		08/18/97	---	55.87	---	7226.56
		11/16/97	---	56.13	---	7226.30
		02/10/98	---	56.36	---	7226.07
		06/08/98	---	56.63	---	7225.80
		09/29/98	---	56.90	---	7225.53
		04/27/99	---	57.31	---	7225.12
		10/11/99	---	57.75	---	7224.68
		05/10/00	---	57.90	---	7224.53
		11/14/00	---	58.18	---	7224.25
		05/21/01	---	58.31	---	7224.12
		11/16/01	---	58.47	---	7223.96
		04/17/02	---	58.60	---	7223.83
		10/30/02	---	58.90	---	7223.53
		05/20/03	---	59.08	---	7223.35
		11/10/03	---	59.28	---	7223.15
		06/07/04	---	59.49	---	7222.94
		06/08/05	---	59.50	---	7222.93
		07/10/06	---	60.40	---	7222.03
		07/25/07	---	60.79	---	7221.64
		09/22/08	---	61.14	---	7221.29
		08/04/09	---	61.22	---	7221.21
		05/18/10	---	61.29	---	7221.14

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-14B	7,285.76	08/14/90	---	55.14	---	7230.62
		11/14/90	---	55.02	---	7230.74
		01/09/91	---	55.12	---	7230.64
		02/07/91	---	55.19	---	7230.57
		03/07/91	---	55.21	---	7230.55
		04/12/91	---	55.64	---	7230.12
		05/22/91	---	55.36	---	7230.40
		06/19/91	---	55.38	---	7230.38
		07/25/91	---	55.54	---	7230.22
		09/16/91	---	55.63	---	7230.13
		10/09/91	---	55.72	---	7230.04
		01/06/92	---	55.74	---	7230.02
		04/30/92	---	55.02	---	7230.74
		10/06/92	---	53.94	---	7231.82
		10/08/92	---	53.93	---	7231.83
		04/19/93	---	53.25	---	7232.51
		11/14/95	---	56.25	---	7229.51
		02/15/96	---	56.62	---	7229.14
		05/21/96	---	57.02	---	7228.74
		08/12/96	---	57.33	---	7228.43
		11/18/96	---	57.64	---	7228.12
		02/24/97	---	58.01	---	7227.75
		05/19/97	---	58.27	---	7227.49
		08/18/97	---	58.56	---	7227.20
		11/16/97	---	58.86	---	7226.90
		02/10/98	---	59.08	---	7226.68
		06/08/98	---	59.41	---	7226.35
		09/29/98	---	59.69	---	7226.07
		04/27/99	---	60.17	---	7225.59
		10/11/99	---	60.43	---	7225.33
		05/10/00	---	60.56	---	7225.20
		11/14/00	---	60.71	---	7225.05
		05/21/01	---	60.77	---	7224.99
		11/16/01	---	60.98	---	7224.78
		04/17/02	---	61.19	---	7224.57
		10/30/02	---	61.55	---	7224.21
		05/20/03	---	61.84	---	7223.92
		11/10/03	---	62.11	---	7223.65
		06/07/04	---	62.36	---	7223.40
		06/08/05	---	62.92	---	7222.84
		07/10/06	---	63.48	---	7222.28
		07/25/07	---	63.95	---	7221.81
		09/22/08	---	64.50	---	7221.26
		08/04/09	---	64.83	---	7220.93
		05/18/10	---	65.15	---	7220.61

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-15B	7,292.92	08/14/90	---	49.86	---	7243.06
		11/14/90	---	49.98	---	7242.94
		01/10/91	---	50.10	---	7242.82
		02/07/91	---	50.16	---	7242.76
		03/06/91	---	50.17	---	7242.75
		04/10/91	---	50.25	---	7242.67
		05/23/91	---	50.45	---	7242.47
		06/19/91	---	50.54	---	7242.38
		07/25/91	---	50.70	---	7242.22
		09/16/91	---	50.92	---	7242.00
		10/09/91	---	50.95	---	7241.97
		01/07/92	---	50.57	---	7242.35
		04/30/92	---	48.74	---	7244.18
		10/06/92	---	47.75	---	7245.17
		10/08/92	---	47.74	---	7245.18
		04/19/93	---	47.41	---	7245.51
		11/14/95	---	51.84	---	7241.08
		02/15/96	---	52.42	---	7240.50
		05/21/96	---	53.04	---	7239.88
		08/12/96	---	53.52	---	7239.40
		11/18/96	---	53.99	---	7238.93
		02/24/97	---	54.48	---	7238.44
		05/19/97	---	54.60	---	7238.32
		08/18/97	---	55.18	---	7237.74
		11/16/97	---	55.48	---	7237.44
		02/10/98	---	55.70	---	7237.22
		06/08/98	---	56.00	---	7236.92
		09/29/98	---	56.35	---	7236.57
		04/27/99	---	56.55	---	7236.37
		08/03/99	---	57.02	---	7235.90
		08/27/99	---	57.10	---	7235.82
		10/11/99	---	56.98	---	7235.94
		02/28/00	---	56.60	---	7236.32
		05/10/00	---	56.63	---	7236.29
		11/14/00	---	56.78	---	7236.14
		05/21/01	---	57.03	---	7235.89
		11/16/01	---	57.28	---	7235.64
		04/17/02	---	57.56	---	7235.36
		10/30/02	---	57.74	---	7235.18
		05/21/03	---	58.05	---	7234.87
		11/10/03	---	58.36	---	7234.56
		06/07/04	---	58.73	---	7234.19
		06/08/05	---	59.35	---	7233.57
		07/10/06	---	59.99	---	7232.93
		07/25/07	---	60.65	---	7232.27
		09/22/08	---	60.77	---	7232.15
		08/04/09	---	60.81	---	7232.11
		05/18/10	---	60.91	---	7232.01

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-16B	7,288.82	08/14/90	---	47.21	---	7241.61
		11/14/90	---	47.46	---	7241.36
		01/10/91	---	47.60	---	7241.22
		02/06/91	---	47.62	---	7241.20
		03/06/91	---	47.63	---	7241.19
		04/09/91	---	47.73	---	7241.09
		05/23/91	---	47.87	---	7240.95
		06/18/91	---	47.91	---	7240.91
		07/26/91	---	48.04	---	7240.78
		09/03/91	---	48.17	---	7240.65
		10/11/91	---	48.30	---	7240.52
		11/12/91	---	48.34	---	7240.48
		12/12/91	---	48.22	---	7240.60
		01/08/92	---	48.11	---	7240.71
		02/20/92	---	47.76	---	7241.06
		03/18/92	---	47.43	---	7241.39
		04/29/92	---	46.89	---	7241.93
		10/06/92	---	45.97	---	7242.85
		10/13/92	---	45.95	---	7242.87
		04/19/93	---	45.61	---	7243.21
		04/20/93	---	45.62	---	7243.20
		11/14/95	---	48.88	---	7239.94
		02/15/96	---	49.33	---	7239.49
		05/21/96	---	50.11	---	7238.71
		08/12/96	---	50.41	---	7238.41
		11/18/96	---	50.74	---	7238.08
		02/24/97	---	51.08	---	7237.74
		05/19/97	---	51.35	---	7237.47
		08/18/97	---	51.67	---	7237.15
		11/16/97	---	52.02	---	7236.80
		02/10/98	---	52.16	---	7236.66
		06/08/98	---	52.42	---	7236.40
		09/29/98	---	52.86	---	7235.96
		04/27/99	---	53.02	---	7235.80
		10/11/99	---	53.66	---	7235.16
		05/10/00	---	53.50	---	7235.32
		11/14/00	---	53.52	---	7235.30
		05/21/01	---	53.71	---	7235.11
		11/16/01	---	53.93	---	7234.89
		04/17/02	---	54.11	---	7234.71
		10/30/02	---	54.34	---	7234.48
		05/21/03	---	54.65	---	7234.17
		11/10/03	---	54.94	---	7233.88
		06/07/04	---	55.32	---	7233.50
		06/08/05	---	55.94	---	7232.88
		07/10/06	---	56.57	---	7232.25
		07/25/07	---	57.11	---	7231.71
		09/22/08	---	57.50	---	7231.32
		08/04/09	---	57.56	---	7231.26
		05/18/10	---	57.73	---	7231.09

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-17B	7,284.75	08/14/90	---	40.79	---	7243.96
		11/15/90	---	40.83	---	7243.92
		01/10/91	---	40.96	---	7243.79
		02/08/91	---	40.99	---	7243.76
		03/06/91	---	41.01	---	7243.74
		04/11/91	---	41.06	---	7243.69
		05/22/91	---	41.14	---	7243.61
		06/18/91	---	41.23	---	7243.52
		07/25/91	---	41.34	---	7243.41
		09/16/91	---	41.50	---	7243.25
		10/09/91	---	41.60	---	7243.15
		01/07/92	---	41.60	---	7243.15
		02/19/92	---	41.46	---	7243.29
		03/17/92	---	41.21	---	7243.54
		04/28/92	---	40.84	---	7243.91
		10/06/92	---	39.97	---	7244.78
		10/07/92	---	39.97	---	7244.78
		04/19/93	---	39.40	---	7245.35
		11/14/95	---	42.06	---	7242.69
		02/15/96	---	42.46	---	7242.29
		05/21/96	---	42.94	---	7241.81
		08/12/96	---	43.33	---	7241.42
		11/18/96	---	43.72	---	7241.03
		02/24/97	---	44.14	---	7240.61
		05/19/97	---	44.44	---	7240.31
		08/18/97	---	44.76	---	7239.99
		11/16/97	---	45.07	---	7239.68
		02/10/98	---	45.30	---	7239.45
		06/08/98	---	45.58	---	7239.17
		09/29/98	---	45.97	---	7238.78
		04/27/99	---	46.36	---	7238.39
		10/11/99	---	46.78	---	7237.97
		05/10/00	---	46.57	---	7238.18
		11/14/00	---	47.19	---	7237.56
		05/21/01	---	47.34	---	7237.41
		11/16/01	---	47.58	---	7237.17
		04/17/02	---	47.70	---	7237.05
		10/30/02	---	48.04	---	7236.71
		05/20/03	---	48.22	---	7236.53
		11/10/03	---	48.51	---	7236.24
		06/07/04	---	48.69	---	7236.06
		06/08/05	---	48.73	---	7236.02
		07/10/06	---	49.71	---	7235.04
		07/25/07	---	49.99	---	7234.76
		09/22/08	---	50.06	---	7234.69
		08/04/09	---	50.50	---	7234.25
		05/18/10	---	50.82	---	7233.93

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-18B	7,286.41	08/14/90	---	51.67	---	7234.74
		08/24/90	---	51.68	---	7234.73
		11/15/90	---	51.60	---	7234.81
		01/04/91	---	51.66	---	7234.75
		02/13/91	---	51.76	---	7234.65
		03/06/91	---	51.79	---	7234.62
		04/16/91	---	51.90	---	7234.51
		06/19/91	---	52.05	---	7234.36
		07/26/91	---	52.21	---	7234.20
		09/16/91	---	52.35	---	7234.06
		10/11/91	---	52.41	---	7234.00
		01/08/92	---	52.40	---	7234.01
		05/01/92	---	51.38	---	7235.03
		10/06/92	---	50.24	---	7236.17
		10/13/92	---	50.22	---	7236.19
		04/19/93	---	49.68	---	7236.73
		04/22/93	---	49.70	---	7236.71
		11/14/95	---	53.04	---	7233.37
		02/15/96	---	53.49	---	7232.92
		05/21/96	---	53.94	---	7232.47
		08/12/96	---	54.31	---	7232.10
		11/18/96	---	54.64	---	7231.77
		02/24/97	---	55.03	---	7231.38
		05/19/97	---	55.25	---	7231.16
		08/18/97	---	55.51	---	7230.90
		11/16/97	---	55.75	---	7230.66
		02/10/98	---	55.94	---	7230.47
		06/08/98	---	56.18	---	7230.23
		09/29/98	---	56.43	---	7229.98
		04/27/99	---	56.81	---	7229.60
		10/11/99	---	57.26	---	7229.15
		05/10/00	---	57.18	---	7229.23
		11/14/00	---	57.38	---	7229.03
		05/21/01	---	57.47	---	7228.94
		11/16/01	---	57.87	---	7228.54
		04/17/02	---	57.85	---	7228.56
		10/30/02	---	58.16	---	7228.25
		05/20/03	---	58.40	---	7228.01
		11/10/03	---	58.71	---	7227.70
		06/07/04	---	59.03	---	7227.38
		06/08/05	---	59.65	---	7226.76
		07/10/06	---	60.29	---	7226.12
		07/25/07	---	60.82	---	7225.59
		09/22/08	---	61.28	---	7225.13
		08/04/09	---	61.46	---	7224.95
		05/18/10	---	61.61	---	7224.80

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-19B	7,290.52	08/14/90	---	49.44	---	7241.08
		11/14/90	---	49.76	---	7240.76
		01/10/91	---	49.86	---	7240.66
		02/07/91	---	49.90	---	7240.62
		03/06/91	---	49.92	---	7240.60
		04/09/91	---	50.02	---	7240.50
		05/23/91	---	50.92	---	7239.60
		06/19/91	---	50.23	---	7240.29
		07/26/91	---	50.37	---	7240.15
		09/16/91	---	50.55	---	7239.97
		10/10/91	---	50.60	---	7239.92
		01/08/92	---	50.36	---	7240.16
		02/20/92	---	50.04	---	7240.48
		03/19/92	---	49.60	---	7240.92
		04/29/92	---	48.97	---	7241.55
		10/06/92	---	48.05	---	7242.47
		10/13/92	---	48.04	---	7242.48
		04/19/93	---	47.73	---	7242.79
		11/14/95	---	51.30	---	7239.22
		02/15/96	---	51.75	---	7238.77
		05/21/96	---	52.26	---	7238.26
		08/12/96	---	52.66	---	7237.86
		11/18/96	---	53.02	---	7237.50
		02/24/97	---	53.44	---	7237.08
		05/19/97	---	53.73	---	7236.79
		11/16/97	---	54.29	---	7236.23
		02/10/98	---	54.49	---	7236.03
		06/08/98	---	54.74	---	7235.78
		09/29/98	---	55.05	---	7235.47
		04/27/99	---	55.26	---	7235.26
		08/03/99	---	55.78	---	7234.74
		08/27/99	---	55.87	---	7234.65
		10/11/99	---	55.73	---	7234.79
		02/28/00	---	55.33	---	7235.19
		05/10/00	---	55.39	---	7235.13
		11/14/00	---	55.51	---	7235.01
		05/21/01	---	55.74	---	7234.78
		11/16/01	---	55.96	---	7234.56
		04/17/02	---	56.11	---	7234.41
		10/30/02	---	56.36	---	7234.16
		05/20/03	---	56.60	---	7233.92
		11/10/03	---	56.88	---	7233.64
		06/07/04	---	57.24	---	7233.28
		06/08/05	---	57.84	---	7232.68
		07/10/06	---	58.43	---	7232.09
		07/25/07	---	58.89	---	7231.63
		09/22/08	---	59.24	---	7231.28
		08/04/09	---	59.31	---	7231.21
		05/18/10	---	59.42	---	7231.10

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-20B	7,284.60	08/14/90	---	48.50	---	7236.10
		01/09/91	---	48.70	---	7235.90
		02/07/91	---	48.79	---	7235.81
		03/07/91	---	48.80	---	7235.80
		04/16/91	---	48.88	---	7235.72
		05/20/91	---	48.92	---	7235.68
		06/19/91	---	49.02	---	7235.58
		07/26/91	---	49.13	---	7235.47
		09/16/91	---	49.25	---	7235.35
		10/10/91	---	49.32	---	7235.28
		01/08/92	---	49.36	---	7235.24
		05/01/92	---	48.48	---	7236.12
		10/06/92	---	47.61	---	7236.99
		10/12/92	---	47.58	---	7237.02
		04/19/93	---	47.26	---	7237.34
		04/21/93	---	47.31	---	7237.29
		11/14/95	---	49.63	---	7234.97
		02/15/96	---	50.03	---	7234.57
		05/21/96	---	50.39	---	7234.21
		08/12/96	---	50.66	---	7233.94
		11/18/96	---	50.99	---	7233.61
		02/24/97	---	51.28	---	7233.32
		05/19/97	---	51.54	---	7233.06
		08/18/97	---	51.88	---	7232.72
		11/16/97	---	52.21	---	7232.39
		02/10/98	---	52.46	---	7232.14
		06/08/98	---	52.62	---	7231.98
		09/29/98	---	52.95	---	7231.65
		04/27/99	---	53.30	---	7231.30
		10/11/99	---	53.78	---	7230.82
		05/10/00	---	53.23	---	7231.37
		11/14/00	---	53.53	---	7231.07
		05/21/01	---	53.62	---	7230.98
		11/16/01	---	53.73	---	7230.87
		04/17/02	---	53.78	---	7230.82
		10/30/02	---	54.04	---	7230.56
		05/20/03	---	54.17	---	7230.43
		11/10/03	---	54.29	---	7230.31
		06/07/04	---	54.45	---	7230.15
		06/08/05	---	54.50	---	7230.10
		07/10/06	---	55.33	---	7229.27
		07/25/07	---	55.74	---	7228.86
		09/22/08	---	56.02	---	7228.58
		08/04/09	---	56.13	---	7228.47
		05/18/10	---	56.15	---	7228.45

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-22B	7,292.74	10/25/90	---	48.08	---	7244.66
		11/15/90	---	48.08	---	7244.66
		01/10/91	---	48.33	---	7244.41
		02/04/91	---	48.38	---	7244.36
		03/06/91	---	48.42	---	7244.32
		04/11/91	---	48.49	---	7244.25
		05/21/91	---	48.65	---	7244.09
		06/17/91	---	48.76	---	7243.98
		07/24/91	---	49.24	---	7243.50
		09/04/91	---	49.06	---	7243.68
		10/03/91	---	49.19	---	7243.55
		11/04/91	---	49.26	---	7243.48
		12/12/91	---	49.15	---	7243.59
		01/10/92	---	49.00	---	7243.74
		01/28/92	---	48.84	---	7243.90
		02/19/92	---	48.67	---	7244.07
		03/18/92	---	48.24	---	7244.50
		04/28/92	---	47.46	---	7245.28
		10/06/92	---	45.97	---	7246.77
		10/08/92	---	45.98	---	7246.76
		04/19/93	---	45.34	---	7247.40
		05/21/96	---	51.25	---	7241.49
		08/12/96	---	51.91	---	7240.83
		02/27/97	---	52.95	---	7239.79
		05/19/97	---	53.13	---	7239.61
		08/18/97	---	53.51	---	7239.23
		11/16/97	---	53.79	---	7238.95
		09/08/98	---	54.05	---	7238.69
		09/29/98	---	54.16	---	7238.58
		04/27/99	---	dry	---	dry
		10/11/99	---	dry	---	dry
		05/10/00	---	dry	---	dry
		11/14/00	---	dry	---	dry
		05/21/01	---	dry	---	dry
		11/16/01	---	dry	---	dry
		04/17/02	---	dry	---	dry
		10/30/02	---	dry	---	dry
		05/21/03	---	dry	---	dry
		11/10/03	---	dry	---	dry
		06/07/04	---	dry	---	dry
		06/08/05	---	dry	---	dry
		07/10/06	---	dry	---	dry
		07/25/07	---	dry	---	dry
		09/22/08	---	dry	---	dry
		08/04/09	---	dry	---	dry
		05/18/10	---	dry	---	dry

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-23B	7,282.63	10/25/90	---	55.78	---	7226.85
		11/15/90	---	55.75	---	7226.88
		01/03/91	---	55.90	---	7226.73
		02/07/91	---	56.20	---	7226.43
		03/07/91	---	56.02	---	7226.61
		04/16/91	---	56.08	---	7226.55
		05/22/91	---	56.14	---	7226.49
		06/19/91	---	56.17	---	7226.46
		07/25/91	---	56.28	---	7226.35
		09/03/91	---	56.38	---	7226.25
		10/09/91	---	56.47	---	7226.16
		11/11/91	---	56.56	---	7226.07
		12/13/91	---	56.63	---	7226.00
		01/07/92	---	56.58	---	7226.05
		02/18/92	---	56.58	---	7226.05
		03/17/92	---	56.42	---	7226.21
		04/30/92	---	56.12	---	7226.51
		10/06/92	---	55.19	---	7227.44
		10/09/92	---	55.19	---	7227.44
		04/19/93	---	54.56	---	7228.07
		11/14/95	---	57.02	---	7225.61
		02/15/96	---	57.39	---	7225.24
		05/21/96	---	57.79	---	7224.84
		08/12/96	---	58.11	---	7224.52
		11/18/96	---	58.38	---	7224.25
		02/24/97	---	58.75	---	7223.88
		05/19/97	---	59.01	---	7223.62
		08/18/97	---	59.33	---	7223.30
		11/16/97	---	59.66	---	7222.97
		02/10/98	---	59.97	---	7222.66
		06/08/98	---	60.36	---	7222.27
		09/29/98	---	60.73	---	7221.90
		04/27/99	---	61.29	---	7221.34
		10/11/99	---	61.66	---	7220.97
		05/10/00	---	61.88	---	7220.75
		11/14/00	---	62.09	---	7220.54
		05/21/01	---	62.19	---	7220.44
		11/16/01	---	62.33	---	7220.30
		04/17/02	---	62.47	---	7220.16
		10/30/02	---	62.74	---	7219.89
		05/20/03	---	62.94	---	7219.69
		11/10/03	---	63.16	---	7219.47
		06/07/04	---	63.40	---	7219.23
		06/08/05	---	63.93	---	7218.70
		07/10/06	---	64.52	---	7218.11
		07/25/07	---	65.07	---	7217.56
		09/22/08	---	65.63	---	7217.00
		08/04/09	---	65.89	---	7216.74
		05/18/10	---	66.11	---	7216.52

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-24B	7,279.18	10/25/90	---	53.64	---	7225.54
		11/15/90	---	53.72	---	7225.46
		01/03/91	---	53.76	---	7225.42
		01/09/91	---	53.78	---	7225.40
		02/07/91	---	53.86	---	7225.32
		03/07/91	---	53.86	---	7225.32
		04/16/91	---	53.94	---	7225.24
		05/22/91	---	54.00	---	7225.18
		07/26/91	---	54.15	---	7225.03
		09/03/91	---	54.21	---	7224.97
		10/10/91	---	54.30	---	7224.88
		11/11/91	---	54.38	---	7224.80
		12/13/91	---	54.43	---	7224.75
		01/07/92	---	54.40	---	7224.78
		02/18/92	---	54.40	---	7224.78
		03/17/92	---	54.25	---	7224.93
		04/30/92	---	53.98	---	7225.20
		10/06/92	---	53.06	---	7226.12
		10/13/92	---	53.02	---	7226.16
		04/19/93	---	52.33	---	7226.85
		04/21/93	---	52.33	---	7226.85
		11/14/95	---	54.62	---	7224.56
		02/15/96	---	54.96	---	7224.22
		05/21/96	---	55.38	---	7223.80
		08/12/96	---	55.66	---	7223.52
		11/18/96	---	55.93	---	7223.25
		02/24/97	---	56.26	---	7222.92
		05/19/97	---	56.50	---	7222.68
		08/18/97	---	56.78	---	7222.40
		11/16/97	---	57.07	---	7222.11
		02/10/98	---	57.32	---	7221.86
		06/08/98	---	57.69	---	7221.49
		09/29/98	---	58.03	---	7221.15
		04/27/99	---	58.56	---	7220.62
		10/11/99	---	58.89	---	7220.29
		05/10/00	---	59.04	---	7220.14
		11/14/00	---	59.22	---	7219.96
		05/21/01	---	59.29	---	7219.89
		11/16/01	---	59.38	---	7219.80
		04/17/02	---	59.45	---	7219.73
		10/30/02	---	59.66	---	7219.52
		05/20/03	---	59.79	---	7219.39
		11/10/03	---	59.93	---	7219.25
		06/07/04	---	60.07	---	7219.11
		06/08/05	---	60.41	---	7218.77
		07/10/06	---	60.68	---	7218.50
		07/25/07	---	60.85	---	7218.33
		09/22/08	---	60.96	---	7218.22
		08/04/09	---	61.00	---	7218.18
		05/18/10	---	61.00	---	7218.18

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-34B	7,294.71	05/12/92	---	48.62	---	7246.09
		05/13/92	---	48.60	---	7246.11
		05/14/92	---	48.58	---	7246.13
		06/19/92	---	48.18	---	7246.53
		07/28/92	---	47.88	---	7246.83
		04/19/93	---	46.98	---	7247.73
		11/14/95	---	52.33	---	7242.38
		10/11/99	58.54	58.56	0.02	7236.17
		05/10/00	57.33	57.35	0.02	7237.38
		11/14/00	---	57.61	---	7237.10
		05/21/01	58.78	58.83	0.05	7235.92
		11/16/01	---	59.26	---	7235.45
		04/17/02	59.09	59.86	0.77	7235.44
		10/30/02	---	60.10	---	7234.61
		05/21/03	59.48	60.72	1.24	7234.93
		11/10/03	---	61.31	---	7233.40
		06/07/04	60.32	61.38	1.06	7234.14
		06/08/05	---	61.26	---	7233.45
		08/05/05	---	61.33	---	7233.38
		07/10/06	61.02	61.56	0.54	7233.56
		07/25/07	62.44	62.97	0.53	7232.14
		09/22/08	61.35	61.40	0.05	7233.35
		08/04/09	61.05	61.06	0.01	7233.66
		05/18/10	61.73	61.78	0.05	7232.97
5-35B	7,296.11	05/05/92	---	50.55	---	7245.56
		05/14/92	---	50.32	---	7245.79
		05/30/92	---	50.14	---	7245.97
		06/19/92	---	49.94	---	7246.17
		06/29/92	---	49.81	---	7246.30
		07/24/92	---	49.61	---	7246.50
		08/07/92	---	49.51	---	7246.60
		08/31/92	---	49.35	---	7246.76
		09/15/92	---	49.29	---	7246.82
		09/29/92	---	49.26	---	7246.85
		10/14/92	---	49.20	---	7246.91
		04/19/93	---	48.79	---	7247.32
		04/22/93	---	48.73	---	7247.38
		05/19/97	sheen	56.21	sheen	7240.67
		08/18/97	---	56.41	---	7240.47
	7,295.33 (a)	02/10/98	---	55.79	---	7239.54
		10/11/99	57.15	57.16	0.01	7238.18
		05/10/00	---	56.68	---	7238.65
		11/14/00	---	57.30	---	7238.03
		05/21/01	---	57.51	---	7237.82
		11/16/01	---	57.75	---	7237.58
		04/17/02	---	57.96	---	7237.37
		10/30/02	---	57.97	---	7237.36
		05/21/03	---	58.31	---	7237.02
		11/10/03	---	58.43	---	7236.90
		06/07/04	---	58.69	---	7236.64
		06/08/05	---	58.89	---	7236.44
		07/10/06	---	58.99	---	7236.34
		07/25/07	---	58.97	---	7236.36
		09/22/08	---	58.43	---	7236.90
		08/04/09	---	58.60	---	7236.73
		05/18/10	---	58.72	---	7236.61

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-41B	7,279.73	10/06/92	---	61.03	---	7218.70
		10/09/92	---	60.99	---	7218.74
		04/19/93	---	60.38	---	7219.35
		04/20/93	---	60.40	---	7219.33
		11/14/95	---	61.90	---	7217.83
		02/15/96	---	62.26	---	7217.47
		05/21/96	---	62.72	---	7217.01
		08/12/96	---	63.12	---	7216.61
		11/18/96	---	63.52	---	7216.21
		02/24/97	---	63.97	---	7215.76
		05/19/97	---	64.36	---	7215.37
		08/18/97	---	64.72	---	7215.01
5-47B	7,268.35	10/06/92	---	62.71	---	7205.64
		10/07/92	---	62.71	---	7205.64
		04/19/93	---	62.18	---	7206.17
		04/20/93	---	62.20	---	7206.15
		11/14/95	---	62.77	---	7205.58
		02/15/96	---	63.27	---	7205.08
		05/21/96	---	63.83	---	7204.52
		08/12/96	---	64.31	---	7204.04
		11/18/96	---	64.75	---	7203.60
		02/24/97	---	TP	---	---
		05/19/97	---	65.39	---	7202.96
		08/18/97	---	66.03	---	7202.32
5-48B	7,292.64	10/06/92	---	46.80	---	7245.84
		10/12/92	---	46.96	---	7245.68
		04/19/93	---	46.52	---	7246.12
		04/21/93	---	46.51	---	7246.13
		11/14/95	---	51.00	---	7241.64
		02/15/96	---	51.60	---	7241.04
		05/21/96	---	52.22	---	7240.42
		08/12/96	---	52.75	---	7239.89
		11/18/96	---	53.24	---	7239.40
		02/24/97	---	53.76	---	7238.88
		05/19/97	---	54.11	---	7238.53
		08/18/97	---	54.49	---	7238.15
		11/16/97	---	54.78	---	7237.86
		09/29/98	---	55.67	---	7236.97
		04/27/99	---	55.93	---	7236.71
		08/03/99	---	56.32	---	7236.32
		08/27/99	---	56.41	---	7236.23
		10/11/99	---	56.44	---	7236.20
		02/28/00	---	56.19	---	7236.45
		05/10/00	---	56.08	---	7236.56
		11/14/00	---	56.35	---	7236.29
		05/21/01	---	56.57	---	7236.07
		11/16/01	---	56.82	---	7235.82
		04/17/02	---	57.05	---	7235.59
		10/30/02	---	57.22	---	7235.42
		05/21/03	---	57.54	---	7235.10
		11/10/03	---	57.82	---	7234.82
		06/07/04	---	58.23	---	7234.41
		06/08/05	---	58.86	---	7233.78
		07/10/06	---	59.44	---	7233.20
		07/25/07	---	59.84	---	7232.80
		09/22/08	---	dry	---	dry
		08/04/09	---	dry	---	dry
		05/18/10	---	dry	---	dry

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
5-57B	7,257.80	04/19/93	---	59.97	---	7197.83
		11/14/95	---	60.21	---	7197.59
		02/15/96	---	60.58	---	7197.22
		05/21/96	---	61.03	---	7196.77
		08/12/96	---	61.44	---	7196.36
		11/18/96	---	61.80	---	7196.00
		02/24/97	---	62.20	---	7195.60
		05/19/97	---	62.51	---	7195.29
		08/18/97	---	62.82	---	7194.98
5-58B	7,279.38	04/19/93	---	64.09	---	7215.29
		11/14/95	---	65.55	---	7213.83
		02/15/96	---	66.16	---	7213.22
		05/21/96	---	66.83	---	7212.55
		08/12/96	---	67.37	---	7212.01
		11/18/96	---	67.86	---	7211.52
		02/24/97	---	68.42	---	7210.96
		05/19/97	---	68.82	---	7210.56
		08/18/97	---	69.21	---	7210.17
5-59	7,290.82	11/16/01	---	49.97	---	7240.85
		04/17/02	---	50.07	---	7240.75
		10/30/02	---	50.29	---	7240.53
		05/21/03	---	50.38	---	7240.44
		11/10/03	---	50.57	---	7240.25
		06/07/04	---	50.66	---	7240.16
		06/08/05	---	50.84	---	7239.98
		07/10/06	---	51.12	---	7239.70
		07/25/07	---	51.32	---	7239.50
		09/22/08	---	51.50	---	7239.32
		08/04/09	---	51.49	---	7239.33
		05/18/10	---	51.42	---	7239.40
5-60	7,290.83	11/16/01	---	52.01	---	7238.82
		04/17/02	---	52.07	---	7238.76
		10/30/02	---	52.27	---	7238.56
		05/21/03	---	52.33	---	7238.50
		11/10/03	---	52.51	---	7238.32
		06/07/04	---	52.60	---	7238.23
		06/08/05	---	52.75	---	7238.08
		07/10/06	---	52.97	---	7237.86
		07/25/07	---	53.10	---	7237.73
		09/22/08	---	53.26	---	7237.57
		08/04/09	---	53.30	---	7237.53
		05/18/10	---	53.17	---	7237.66

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
SVE-1	7,296.88	02/10/98	---	58.35	---	7238.53
		10/11/99	---	59.28	---	7237.60
		05/10/00	---	58.78	---	7238.10
		11/14/00	---	59.07	---	7237.81
		11/16/01	---	59.83	---	7237.05
		04/17/02	---	60.01	---	7236.87
		10/30/02	---	60.20	---	7236.68
		05/21/03	---	60.54	---	7236.34
		11/10/03	---	60.84	---	7236.04
		06/07/04	---	61.16	---	7235.72
		06/08/05	---	61.46	---	7235.42
		07/10/06	---	dry	---	dry
		07/25/07	---	dry	---	dry
		09/22/08	---	dry	---	dry
		08/04/09	---	dry	---	dry
		05/18/10	---	dry	---	dry
SVE-2	7,297.68	02/10/98	---	58.85	---	7238.83
		10/11/99	---	59.57	---	7238.11
		05/10/00	---	58.99	---	7238.69
		11/14/00	---	59.29	---	7238.39
		11/16/01	---	60.14	---	7237.54
		04/17/02	---	60.28	---	7237.40
		10/30/02	---	60.49	---	7237.19
		05/21/03	---	60.83	---	7236.85
		11/10/03	---	61.18	---	7236.50
		06/07/04	---	61.49	---	7236.19
		06/08/05	---	61.67	---	7236.01
		07/10/06	---	dry	---	dry
		07/25/07	---	dry	---	dry
		09/22/08	---	dry	---	dry
		08/04/09	---	dry	---	dry
		05/18/10	---	dry	---	dry
SVE-3	7,293.68	02/10/98	---	56.24	---	7237.44
		10/11/99	---	57.42	---	7236.26
		11/16/01	---	57.81	---	7235.87
		04/17/02	---	58.01	---	7235.67
		10/30/02	---	58.18	---	7235.50
		05/21/03	---	58.49	---	7235.19
		11/10/03	---	58.76	---	7234.92
		06/07/04	---	59.15	---	7234.53
		06/08/05	---	60.42	---	7233.26
		07/10/06	60.05	60.71	0.66	7233.47
		07/25/07	60.51	60.52	0.01	7233.17
		09/22/08	---	60.53	---	7233.15
		08/04/09	---	60.08	---	7233.60
		05/18/10	---	60.91	---	7232.77

Table 1. Summary of Groundwater Level Data
Thoreau Station Remediation Site

Well ID	Measuring Point Elevation (fmsl)	Date	Depth to PSH (ft below MP)	Depth to Ground Water (ft below MP)	PSH Thickness (ft)	Ground Water Elevation (fmsl)
SVE-4	7,289.83	02/10/98	---	52.91	---	7236.92
		10/11/99	---	54.48	---	7235.35
		11/16/01	---	54.75	---	7235.08
		04/17/02	---	54.94	---	7234.89
		10/30/02	---	55.19	---	7234.64
		05/21/03	---	55.48	---	7234.35
		11/10/03	---	55.75	---	7234.08
		06/07/04	---	56.14	---	7233.69
		06/08/05	---	56.79	---	7233.04
		07/10/06	---	57.45	---	7232.38
		07/25/07	---	57.94	---	7231.89
		09/22/08	---	58.31	---	7231.52
		08/04/09	---	58.36	---	7231.47
		05/18/10	---	58.57	---	7231.26
5-37I	7,296.31	10/11/99	---	58.90	---	7237.41
		05/10/00	---	58.46	---	7237.85
		11/14/00	---	58.99	---	7237.32
		11/16/01	---	59.46	---	7236.85
		04/17/02	---	59.64	---	7236.67
		10/30/02	---	59.71	---	7236.60
		05/21/03	---	59.94	---	7236.37
		11/10/03	---	60.14	---	7236.17
		06/07/04	---	60.33	---	7235.98
		06/08/05	---	60.37	---	7235.94
		07/10/06	---	60.47	---	7235.84
		07/25/07	---	60.45	---	7235.86
		09/22/08	---	59.93	---	7236.38
		08/04/09	---	60.28	---	7236.03
		05/18/10	---	60.18	---	7236.13
5-36E	7,296.56	10/11/99	---	60.76	---	7235.80
		05/10/00	---	59.76	---	7236.80
		11/14/00	---	59.25	---	7237.31
		11/16/01	---	61.31	---	7235.25
		04/17/02	---	61.51	---	7235.05
		10/30/02	---	61.59	---	7234.97
		05/21/03	---	61.46	---	7235.10
		11/10/03	---	61.86	---	7234.70
		06/07/04	---	62.30	---	7234.26
		06/08/05	---	62.62	---	7233.94
		07/10/06	---	62.83	---	7233.73
		07/25/07	---	62.93	---	7233.63
		09/22/08	---	62.46	---	7234.10
		08/04/09	---	61.84	---	7234.72
		05/18/10	---	63.11	---	7233.45

MP = Measuring point
fmsl = Feet above mean sea level
NM = Not measured
TP = Tagged top of pump
(a) Measuring point elevation adjusted for addition of SVE extraction point tee at surface.

Table 2. Summary of Field Measured Parameters
Thoreau Compressor Station No. 5

Well ID	Date	Dissolved Oxygen (mg/L) Meter/Hach	pH	Temperature °C	Electrical Conductivity (µmhos)	Remarks
5-01B	11/21/95	3.8	7.37	12.8	1314	Muddy, no odor
	02/21/96	7.5	7.40	11.9	960	Turbid, no odor
	02/27/97	4.57	7.49	7.7	820	Turbid
	08/20/97	NM	7.29	14.7	1312	Turbid, no odor
5-01C	11/23/97	5.5	7.59	14.9	1252	Clear
	02/12/98	3.4	7.86	11.3	1137	Clear
	04/29/99	--/2.8	7.67	13.1	1262	Clear
	05/12/00	0.0/1.2	7.57	12.8	1390	Clear
	05/22/01	2.6/2.6	7.48	14.0	1510	Clear
	04/20/02	3.2	7.50	14.5	1494	Clear
	05/21/03	3.5	7.43	15.7	1571	Clear
	06/07/04	2.7	7.43	14.5	1637	Clear
	06/08/05	---	7.39	14.1	1658	---
	07/11/06	3.3	7.28	13.4	1318	Clear
	07/25/07	3.3	7.61	13.4	1300	Clear
	09/23/08	3.0	7.88	13.0	1310	Clear
	08/04/09	3.9	7.08	14.2	1718	Cloudy
5-02B	11/21/95	2.1	6.89	14.5	920	Slightly cloudy, HC odor
	02/22/96	4.0	7.14	11.9	1010	Colorless, suspended black silt, HC odor
	02/28/97	2.17	7.20	9.6	990	Clear
5-02C	11/24/97	3.0	7.24	12.5	1439	Turbid, Reddish
	02/11/98	0.9	7.24	10.1	1397	Clear
	04/28/99	--/0.8	7.10	13.4	1756	Clear, Strong HC odor
	05/13/00	0.9	7.11	13.4	1821	Clear, strong odor
	05/24/01	2.6/1.6	7.11	15.8	1800	Clear, odor
	04/20/02	1.5	7.15	15.0	1829	Cloudy, sweet odor
	05/22/03	1.2	7.10	16.4	1833	Cloudy, odor
	06/08/04	1.3	7.04	15.9	1934	Clear
	06/09/05	---	7.04	14.3	1984	---
5-03B	11/15/95	8.0	7.59	14.0	860	Clear, no odor
	05/20/96	7.0b	8.26	13.4	1282	Turbid
	02/24/97	5.74/7.0	7.77	10.2	980	Turbid
	02/10/98	8.17	7.36	12.5	1000	Turbid
	04/27/99	8.6	7.72	13.8	1357	Redish silt, Turbid
	05/11/00	7.6/7.5	7.78	13.1	1311	Redish turbid
	05/22/01	8.5/8.0	7.79	14.1	1314	Redish turbid
	04/18/02	8.2	7.81	14.9	1347	Red sand, turbid
	05/20/03	8.1	7.74	16.0	1415	Red sand, turbid
	06/07/04	2.7	7.65	14.2	1450	Red sand, turbid
5-04B	11/17/95	NM	7.15	14.6	1097	Clear, moderate HC odor
	11/17/00	1.9	7.57	12.1	1851	Bailed dry @ 0.3 gals, turbid
	05/22/01	2.7/2.6	7.54	16.1	1994	Bailed dry @ 0.3 gals, turbid
	04/19/02	4.8	7.48	17.0	1974	Turbid, Bailed dry @ 0.15 gal
	05/21/03	7.1	7.52	18.5	1966	Clear, Bailed dry @ 0.08 gal
	11/10/03	8.9	7.85	14.9	1669	Muddy, Bailed dry @ 0.07 gal
5-05B	11/17/95	2.9	7.04	13.0	1350	Clear, moderate HC odor
	05/22/96	1.4	7.36	13.8	1419	Clear, no odor
	02/25/97	2.86	7.46	8.2	890	Cloudy, HC odor
	10/13/99	7.1	7.42	13.2	1512	Clear
	05/11/00	2.2/2.4	7.38	13.3	1565	Cloudy
	05/22/01	2.5	7.37	14.4	1578	Cloudy, bailing down
	04/18/02	0.8	7.41	17.9	1444	Turbid (muddy water)
	05/21/03	1.0	7.29	15.8	1515	Turbid (muddy water)
	06/08/04	1.0	7.21	13.9	1555	Cloudy

Table 2. Summary of Field Measured Parameters
Thoreau Compressor Station No. 5

Well ID	Date	Dissolved Oxygen (mg/L) Meter/Hach	pH	Temperature °C	Electrical Conductivity (µmhos)	Remarks
5-06B	11/21/95	3.2	7.51	14.0	880	Slightly cloudy, no HC odor
	02/22/96	7.2	7.71	12.6	880	Clear, slight HC ordor
	02/28/97	1.11	7.78	11.7	895	Clear
	08/20/97	2.7/2.2	7.62	14.2	1140	Clear
5-06C	11/23/97	0.5/0.8	7.67	14.3	1181	Turbid
	02/12/98	0.0	7.75	11.9	1072	Clear
	04/29/99	--/1.0	7.55	12.8	1135	Clear
	05/13/00	0.4/0.6	7.65	13.2	1178	Clear
	05/22/01	0.9	7.61	13.9	1252	Turbid
	04/20/02	1.4	7.64	14.4	1256	Clear
	05/21/03	1.7	7.47	15.2	1432	Cloudy
	06/07/04	1.4	7.43	14.4	1441	Turbid
	06/09/05	---	7.34	12.7	1560	---
	07/11/06	2.0	7.42	13.7	1145	Clear
	07/25/07	3.0	7.57	13.0	1094	Clear
	09/23/08	3.1	7.88	13.2	1115	Clear
	08/04/09	2.8	7.06	13.4	1461	Clear
	05/18/10	2.9	6.83	12.6	1538	Clear
5-12B	11/16/95	6.5	7.38	13.9	900	Clear, no odor
	05/24/96	8.0	7.44	15.0	870	Clear
	02/26/97	4.78/6.5	7.58	11.8	895	Clear
	02/11/98	6.2 /7.0	7.70	11.3	1114	Clear
	04/27/99	7.8	7.70	12.8	1240	Clear
	05/11/00	6.7	7.83	14.4	1248	Clear
	05/23/01	6.7	7.78	15.2	1251	Clear
	04/19/02	7.4	8.04	15.1	1241	Clear
	05/20/03	8.6	8.00	15.8	1242	Clear
	06/08/04	3.9	8.03	16.3	1323	Clear
5-13B	11/20/95	4.3	7.59	13.9	800	Clear, HC odor
	02/21/96	4.2	7.67	13.8	840	Clear, HC odor
	02/26/97	1.51	7.53	11.9	850	Clear
	02/11/98	1.3/1.0	7.81	11.0	1077	Clear, Odor
	04/27/99	--	7.54	12.8	1223	Clear, HC odor
	05/11/00	0.1/0.8	7.50	13.2	1274	Clear
	05/23/01	2.3	7.47	14.1	1296	Clear
	04/19/02	1.9	7.49	15.2	1267	Cloudy
	05/20/03	1.9	7.44	15.5	1263	Clear
	06/08/04	1.5	7.95	16.4	1330	Clear
5-14B	11/16/95	8.0	8.03	14.6	1056	Very slightly cloudy
	05/21/96	9.8a	8.01	13.9	1011	Clear
	02/26/97	--/6.5	7.87	10.5	931	Clear, no odor
	02/10/98	8.12	6.91	10.2	630	Clear
	04/27/99	7.5/6.5	7.79	13.3	1058	Turbid
	05/11/00	7.3	7.85	13.0	1014	Clear
	05/24/01	8.1	7.86	14.3	1027	Clear
	04/19/02	6.9	7.86	15.5	1148	Turbid
	05/22/03	7.2	7.79	16.1	1168	Cloudy
	06/08/04	3.4	7.82	16.2	1246	Red Cloudy

Table 2. Summary of Field Measured Parameters
Thoreau Compressor Station No. 5

Well ID	Date	Dissolved Oxygen (mg/L) Meter/Hach	pH	Temperature °C	Electrical Conductivity (µmhos)	Remarks
5-15B	11/16/95	6.9	7.98	12.5	982	Clear, no odor
	05/22/96	4.9	7.67	13.0	710	Clear
	02/26/97	--/6.8	7.82	11.4	977	Clear, no odor
	02/11/98	6.22/7.0	7.39	13.1	720	Slightly Turbid
	04/28/99	--/7.0	7.73	13.0	1022	Cloudy
	05/12/00	8.1	7.65	13.1	1008	Clear
	05/24/01	6.4	7.77	14.6	1049	Clear
	04/19/02	6.0	7.79	15.6	1116	Clear
	05/22/03	5.2	7.73	17.0	1150	Clear
	06/08/04	3.1	7.69	15.2	1159	Cloudy
5-16B	11/20/95	2.4	7.50	13.0	800	Clear, strong HC odor
	02/21/96	3.5	7.58	13.8	840	Clear, HC odor
	02/27/97	2.31	7.52	12.0	1131	Clear, strong HC odor
	02/11/98	2.78	7.16	11.6	840	Clear, HC odor, film/sheen
	04/28/99	--	--	--	--	Clear w/sheen, turns blk, PSH odor
	05/12/00	--	--	--	--	Clear w/blk particulates, sheen, strong odor
	05/24/01	--	--	--	--	Clear w/blk particulates, sheen, strong odor
	04/20/02	--	--	--	--	Clear w/blk suspended solids, sheen
	05/22/03	--	--	--	--	Clear w/blk suspended solids, sheen
	06/08/04	1.47	7.76	15.60	544	Brackish, strong odor
	06/08/05	---	7.67	15.30	1566	Strong odor
	07/10/06	--	--	--	--	Clear w/blk suspended solids, sheen
	07/25/07	--	--	--	--	Clear w/blk suspended solids, sheen
	09/23/08	--	--	--	--	Clear w/blk suspended solids, sheen
	08/04/09	--	--	--	--	Clear w/blk suspended solids, sheen
	05/18/10	--	--	--	--	Clear w/blk suspended solids, sheen,odor
5-17B	11/20/95	7.4	7.65	13.4	1525	Clear, no odor
	05/22/96	6.4	7.44	12.5	1005	Clear
	02/27/97	4.57	7.64	11.6	930	Clear
	02/11/98	NM	7.25	10.2	910	Clear
	04/28/99	--/7.8	7.69	13.7	1344	Clear
	05/12/00	8.2	7.76	12.9	1363	Clear
	05/23/01	9.2/8.0	7.73	14.6	1405	Clear
	04/19/02	8.4	7.80	14.8	1401	Clear
	05/22/03	8.6	7.71	15.7	1383	Clear
	06/08/04	3.3	7.44	14.9	1529	Clear
	06/08/05	---	7.36	13.9	1816	---
	07/10/06	3.2	7.25	13.1	1597	Clear
	07/25/07	4.7	7.48	13.6	1557	Clear
	09/23/08	5.6	7.83	13.1	1583	Clear
	08/04/09	5.9	7.02	13.7	2005	Clear
5-18B	11/17/95	1.4	7.68	14.0	720	Clear, HC odor
	02/21/96	5.6	7.76	12.2	760	Clear, HC odor
	02/27/97	1.29	7.78	11.7	988	Clear, HC odor
	02/11/98	2.28	7.33	12.8	790	Clear, HC odor
	04/28/99	--/1.4	7.53	12.7	1144	Clear, HC odor
	05/12/00	2.4	7.54	13.4	1198	Clear, Odor
	05/24/01	3.8	7.51	15.7	1264	Clear
	04/20/02	2.0	7.61	14.5	1124	Clear
	05/22/03	1.6	7.52	15.6	1117	Clear, Odor
	06/08/04	1.8	7.43	16.5	1171	---
	06/08/05	---	7.52	14.7	1198	---
	07/10/06	3.0	7.39	13.9	964	Clear
	07/25/07	1.3	7.59	14.8	962	Clear
	09/23/08	2.9	7.91	14.5	989	Clear
	08/04/09	1.1	7.04	15.2	1233	Clear w/susp. solids, Bailed down
	05/18/10	1.7	6.78	13.2	1341	Turbid, bailing down

Table 2. Summary of Field Measured Parameters
Thoreau Compressor Station No. 5

Well ID	Date	Dissolved Oxygen (mg/L) Meter/Hach	pH	Temperature °C	Electrical Conductivity (µmhos)	Remarks
5-19B	11/20/95	2.00	7.68	13.0	700	Clear, slight HC odor
	02/21/96	4.4	7.81	12.7	730	Clear, HC odor
	02/27/97	1.9/1.8	7.83	10.2	951	Clear, HC odor
	02/11/98	2.26	7.47	12.0	710	Clear, HC odor
	04/28/99	--/0.4	7.89	12.7	982	Clear, HC odor
	05/12/00	0.6/0.8	7.89	13.0	986	Clear, slight odor
	05/24/01	1.8/1.6	7.93	14.9	1007	Clear
	04/19/02	0.7	8.00	15.1	1038	Clear
	05/22/03	1.0	7.88	16.2	1094	Clear
	06/08/04	1.5	7.87	15.0	1147	Cloudy
5-20B	11/17/95	2.9	7.16	13.7	1200	Clear, slight HC odor
	05/22/96	1.8	7.18	14.4	1120	Clear
	02/27/97	1.51	7.21	11.1	1120	Slightly Cloudy
	02/11/98	0.00	7.35	10.9	1369	Clear
	04/28/99	--/0.8	7.30	13.4	1362	Clear
	05/12/00	0.5/0.6	7.25	12.7	1325	Clear, slight odor
	05/24/01	1.1/0.8	7.48	14.4	1290	Clear, slight odor
	04/19/02	0.7	7.49	14.9	1275	Clear
	05/22/03	0.5	7.42	15.7	1306	Clear
	06/08/04	1.6	7.41	13.9	1332	Clear
	06/08/05	---	7.43	15.0	1347	---
	07/10/06	1.3	7.46	13.5	1030	Clear
	07/25/07	1.3	7.55	14.3	1028	Clear
	09/23/08	1.9	7.88	13.6	1032	Clear
	08/04/09	0.3	6.99	14.1	1335	Clear
	05/18/10	2.1	6.99	12.9	1419	Clear
5-22B	11/15/95	6.4	7.70	12.9	990	Clear, no odor
	02/22/96	6.6	7.47	12.3	1030	Turbid, very light brown, no odor
	02/27/97	3.53	7.39	10.0	1180	Turbid, HC odor
	11/18/97	--/1.8	7.80	13.6	1740	Turbid, slight odor
5-23B	11/16/95	3.8	7.31	13.3	800	Clear, no odor
	05/22/96	2.6	7.66	13.0	1077	Clear
	02/26/97	--/3.4	7.73	11.8	1018	Clear, no odor (3.4 DO is low range of Hach)
	02/10/98	1.0	7.77	10.7	928	Clear
	04/27/99	2.6/2.0	7.72	12.9	1015	Clear
	05/11/00	1.5/1.8	7.77	13.0	1035	Clear
	05/23/01	2.1	7.72	14.0	1084	Clear
	04/19/02	1.5	7.72	15.0	1103	Clear
	05/20/03	1.2	7.71	15.6	1112	Clear
	06/08/04	1.6	7.63	14.3	1131	Clear
5-24B	11/17/95	1.7	7.33	13.2	1050	Slight cloudy, HC odor
	05/21/96	3.5	7.41	13.9	1050	Clear
	02/26/97	--/1.4	7.42	11.6	1468	Clear, slight odor
	02/10/98	3.2/3.0	7.44	11.2	1392	Slightly turbid
	04/27/99	9.7/8.0	7.37	14.1	1501	Slightly Cloudy
	05/11/00	4.8	7.43	13.5	1454	Cloudy
	05/23/01	2.9	7.52	15.0	1475	Turbid, redish color
	04/19/02	2.2	7.56	15.0	1426	Very turbid, red sand
	05/20/03	1.3	7.51	15.4	1397	Turbid
	06/08/04	2.8	7.68	15.4	1428	Turbid
5-35B	05/18/10	1.6	6.48	15.1	1834	Black, odor, flim like sheen
5-37I	08/15/96	1.67	8.48	17.2	1382	Turbid, green cloudy color, strong HC odor
	11/22/96	NM	7.70	14.9	1080	Greenish black, strong HC odor

Table 2. Summary of Field Measured Parameters
Thoreau Compressor Station No. 5

Well ID	Date	Dissolved Oxygen (mg/L) Meter/Hach	pH	Temperature °C	Electrical Conductivity (µmhos)	Remarks
5-41B	11/16/95	2.00	7.28	14.5	940	Clear, no odor
	05/21/96	1.82	7.41	15.8	920	Clear
	02/25/97	1.65	7.43	12.5	930	Clear
	08/18/97	--/2.2	7.55	14.1	1285	Clear
5-47B	11/15/95	2.50	7.83	13.0	900	Slightly cloudy, no odor
	05/21/96	4.70	7.54	14.6	1080	Clear
	02/26/97	2.20	7.71	11.0	1000	Clear
	08/18/97	--/4.0	7.68	16.3	1470	Clear
5-48B	11/20/95	1.40	7.60	13.7	1035	Clear, strong HC odor
	02/21/96	3.60	7.54	14.0	750	Very slightly cloudy, HC odor
	02/27/97	2.40	7.61	11.8	950	Clear, strong HC odor
	02/12/98	2.23	7.44	14.8	810	Clear, HC odor
	04/28/99	--	7.47	15.4	1261	Clear w/blk flec's, strong HC odor, sheen
	05/12/00	--	--	--	--	Blk, turbid, odor, sheen streamers
	05/22/01	--	--	--	--	Blk, turbid, odor, sheen streamers
	04/20/02	0.9	7.54	15.7	1524	Turbid, odor
	05/21/03	--	--	--	--	Blk, suspended solids, turbid, odor, sheen
	06/07/04	0.9	7.51	16.2	1550	Black
	06/09/05	---	7.31	15.5	1530	Black, brackish
5-57B	11/15/95	4.60	7.59	13.1	880	Brown muddy
	05/20/96	3.10	8.75	13.2	1212	Slightly turbid
	02/25/97	--/3.4	7.71	10.6	1191	Light amber, no odor
	08/18/97	0.7/2.6	7.69	14.4	1071	Slightly turbid
5-58B	11/16/95	8.10	7.47	14.8	740	Cloudy brown, no odor
	05/20/96	6.70	8.71	13.2	1073	Slightly turbid
	02/25/97	7.0b	7.69	11.4	1073	Light amber, no odor
	08/18/97	5.8/6.5	7.68	15.2	964	Slightly turbid
5-59	11/18/01	6.2	7.50	14.5	1430	Turbid, bailed down
	04/20/02	6.7	7.60	14.1	1431	Turbid, bailed down
	05/21/03	5.9	7.40	15.3	1519	Turbid, bailed down
	06/08/04	3.2	7.38	12.8	1495	Turbid, bailed down
	06/09/05	---	7.37	14.2	1453	---
	07/10/06	6.7	7.42	13.3	1112	Turbid, bailed down
	07/25/07	5.5	7.33	14.1	1124	Turbid, bailed down
	09/23/08	6.0	7.84	12.9	1143	Turbid, bailed down
	08/04/09	5.8	7.13	14.3	1501	Clear, bailed down
	05/18/10	6.5	6.62	12.9	1555	Turbid, bailed down
5-60	11/18/01	6.5	7.67	14.5	1296	Very turbid, bailed down
	04/20/02	6.6	7.74	14.1	1291	Very turbid, bailed down
	05/21/03	7.7	7.63	15.6	1297	Very turbid, bailed down
	06/07/04	3.1	7.60	13.9	1415	Cloudy, bailed down
	06/09/05	---	7.65	12.5	1428	---
	07/10/06	7.4	7.40	13.3	1095	Turbid, bailed down
	07/25/07	6.9	7.50	13.6	1059	Turbid, bailed down
	09/23/08	6.8	7.87	12.9	1034	Turbid, bailed down
	08/04/09	7.2	7.23	14.1	1362	Turbid, bailed down

Table 2. Summary of Field Measured Parameters
Thoreau Compressor Station No. 5

Well ID	Date	Dissolved Oxygen (mg/L) Meter/Hach	pH	Temperature °C	Electrical Conductivity (µmhos)	Remarks
SVE-1	05/11/00	7.8	7.90	13.5	992	Red turbid
	11/18/01	8.3	7.90	15.6	1016	Turbid
	04/18/02	8.3	7.96	15.7	1017	Turbid, bailing down
	05/21/03	8.5	7.80	17.7	1009	Clear
	06/07/04	2.1	7.98	21.7	1062	---
SVE-3	05/18/10	--	--	--	--	Sheen, odor, bailed down, turbid

HC = Hydrocarbon
NM = Not measured
(a) Value above theoretical dissolved oxygen concentration for this altitude; therefore, measurement is suspect.

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-01B	12/89	ER	< 5.0	6.3	< 5.0	NA
	03/90	ER	< 5.0	< 5.0	< 5.0	25
	01/91	EH	< 1.0	< 1.0	< 1.0	4.8
	01/09/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	12/13/94	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	06/27/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/22/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/28/97	HEAL	0.6	< 0.5	< 0.5	< 0.5
	08/21/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
5-01C	11/23/97	HEAL	1.4	< 0.5	< 0.5	< 0.5
	01/08/98	HEAL	2.0	< 0.5	< 0.5	< 0.5
	04/29/99	OAL	< 1	< 1	< 1	< 1
Pulled pump	05/12/00	OAL	< 1	< 2	< 2	< 4
	05/22/01	Analysys	< 1	< 1	< 1	< 2
	04/20/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/21/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/07/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/05	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	07/11/06	HEAL	< 1.0	< 1.0	< 1.0	< 3.0
	07/25/07	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	09/23/08	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
5-02B	05/89	ER	1800	2000	< 200	NA
	03/90	ER	2300	3800	< 250	2400
	01/91	EH	600	730	110	940
	01/09/92	ER	360	710	52	480
	04/22/93	ATI-A	120	< 0.5	11	38
	12/09/94	HEAL	2100	2600	220	1800
	11/21/95	HEAL	740	2900	160	1100
	02/22/96	HEAL	260	1000	62	600
	02/28/97	HEAL	260	500	90	680
5-02C	11/23/97	HEAL	26	2.7	9.1	2.7
	02/11/98	HEAL	110	7.0	33	8.3
	04/28/99	OAL	1500	4400	260	2500
	05/13/00	OAL	980	3400	340	3500
	05/24/01	Analysys	446	60	340	3406
	04/20/02	HEAL	450	< 10	300	3100
	05/22/03	HEAL	290	< 10	200	800
	06/08/04	HEAL	270	28	160	1000
	06/09/05	HEAL	300	< 10	190	1700

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-03B	05/89	ER	< 5.0	< 5.0	< 5.0	NA
	04/90	ER	< 5.0	< 5.0	< 5.0	< 5.0
	01/91	EH	< 0.30	< 0.30	< 0.30	< 0.60
	01/09/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	12/09/94	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	11/15/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/24/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/10/98	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	04/27/99	OAL	< 1	< 1	< 1	< 1
	05/11/00	OAL	< 1	< 2	< 2	< 4
	05/22/01	Analysys	< 1	< 1	< 1	< 2
	04/18/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/20/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/07/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
5-04B	10/89	ER	< 25	< 25	< 25	NA
	01/90	ER	21	< 5.0	< 5.0	NA
	01/91	EH	22	1.6	0.75	5.6
	01/10/92	ER	53	< 1.2	3.7	44
	04/21/93	ATI-A	170	130	26	280
	12/12/94	HEAL	12	2.2	3.4	3.3
	11/17/95	HEAL	9.9	1.1	0.6	< 0.5
	02/20/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/14/00	OAL	3	< 2	< 2	< 4
	05/22/01	Analysys	1.72	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/21/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	11/11/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
5-05B	10/89	ER	< 5.0	< 5.0	8.7	NA
	04/90	ER	< 5.0	< 5.0	< 5.0	< 5.0
	01/91	EH	< 0.50	< 0.50	< 0.50	0.56
	01/09/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	04/21/93	ATI-A	38	< 0.5	2.4	3
	12/12/94	HEAL	150	33	16	47
	11/17/95	HEAL	5.0	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	1.0	< 0.5	< 0.5	< 0.5
	02/25/97	HEAL	3.0	1.4	< 0.5	0.6
	10/14/99	OAL	< 1	< 2	< 2	< 4
	05/11/00	OAL	< 1	< 2	< 2	< 4
	05/22/01	Analysys	1.61	< 1	< 1	< 2
	04/18/02	HEAL	5.2	< 0.50	< 0.50	< 0.50
	05/21/03	HEAL	2.1	0.92	1.0	2.6
	06/08/04	HEAL	2.5	< 0.50	0.51	1.3

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-06B	10/89	ER	15	< 5.0	< 5.0	NA
	01/90	ER	< 5.0	< 5.0	8.3	NA
	01/91	EH	< 1.0	< 1.0	< 1.0	31
	01/09/92	ER	2.3	< 0.50	< 0.50	< 0.50
	12/14/94	HEAL	4.3	< 0.50	< 0.50	0.7
	11/21/95	HEAL	6.2	< 0.5	< 0.5	< 0.5
	02/22/96	HEAL	4.3	< 0.5	< 0.5	< 0.5
	02/28/97	HEAL	0.9	< 5.0	< 5.0	< 0.5
	08/20/97	HEAL	0.7	< 5.0	< 5.0	< 0.5
5-06C	11/23/97	HEAL	1.4	0.6	< 5.0	11
	12/08/98	HEAL	1.0	< 0.5	< 0.5	5.7
	04/29/99	OAL	< 1	< 1	< 1	< 1
	05/13/00	OAL	1	< 2	< 2	< 4
	05/22/01	Analysys	< 1	< 1	< 1	< 2
	04/20/02	HEAL	1.1	< 0.50	< 0.50	< 0.50
	05/21/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/07/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/09/05	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	07/11/06	HEAL	< 1.0	< 1.0	< 1.0	< 3.0
	07/25/07	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	09/23/08	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	05/18/10	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
5-12B	08/90	AS	< 1	< 1	< 1	< 1
	01/91	EH	1.5	4.7	0.79	3.8
	01/07/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	11/16/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/26/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/11/98	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	04/27/99	OAL	< 1	< 1	< 1	< 1
	05/11/00	OAL	< 1	< 2	< 2	< 4
	05/23/01	Analysys	< 1	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/20/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-13B	08/90	AS	54	13	< 1	330
	11/90	EH	61	< 10	< 10	480
	01/91	EH	180	17	< 5.0	310
	01/08/92	ER	150	< 25	< 25	570
	11/20/95	HEAL	< 0.5	< 0.5	0.6	2.0
	02/21/96	HEAL	1.0	0.7	< 0.5	< 0.5
	02/26/97	HEAL	1.5	5.9	< 0.5	2.5
	02/11/98	HEAL	0.9	1.5	< 0.5	< 0.5
	04/27/99	OAL	< 1	< 1	< 1	< 1
	05/11/00	OAL	< 1	< 2	< 2	< 4
	05/23/01	Analysys	< 1	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/20/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
5-14B	08/90	AS	< 1	< 1	< 1	< 1
	01/91	EH	< 0.50	< 0.50	< 0.50	< 1.0
	01/06/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	11/16/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	2.6	1.5	< 0.5
	02/26/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/10/98	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	04/27/99	OAL	< 1	< 1	< 1	< 1
	05/11/00	OAL	< 1	< 2	< 2	< 4
	05/24/01	Analysys	< 1	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/22/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
5-15B	08/90	AS	< 1	< 1	< 1	< 1
	01/91	EH	< 0.30	< 0.30	< 0.30	1.0
	01/07/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	11/16/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/26/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/11/98	HEAL	1.5	< 0.5	1.0	1.2
	04/28/99	OAL	< 1	< 1	< 1	< 1
	05/12/00	OAL	< 1	< 2	< 2	< 4
	05/24/01	Analysys	< 1	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/22/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-16B	08/90	AS	19	25	50	320
	01/91	EH	< 0.30	< 0.30	< 0.30	< 0.60
	01/08/92	ER	200	500	410	3000
	04/20/93	ATI-A	6.5	< 0.5	14	51
	11/20/95	HEAL	970	7100	430	3100
	02/21/96	HEAL	1700	6900	340	3600
	02/27/97	HEAL	250	1100	190	2000
	02/11/98	HEAL	41	360	90	660
	04/28/99	OAL	200	170	45	620
	05/12/00	OAL	600	290	92	360
	05/24/01	Analysys	1240	487	174	1105
	04/20/02	HEAL	1800	660	230	1400
	05/22/03	HEAL	1300	130	180	950
	06/08/04	HEAL	890	< 5	110	260
	06/08/05	HEAL	1400	< 5	160	520
	07/10/06	HEAL	1600	< 20	150	380
	07/25/07	HEAL	1700	< 20	170	590
	09/23/08	HEAL	1900	< 5	180	600
	08/04/09	HEAL	1300	< 5	150	590
	05/18/10	HEAL	3800	11	340	2200
5-17B	08/90	AS	< 1	< 1	< 1	< 1
	01/91	EH	< 0.50	< 0.50	< 0.50	< 0.50
	01/08/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	11/20/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/27/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/11/98	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	04/28/99	OAL	< 1	< 1	< 1	< 1
	05/12/00	OAL	< 1	< 2	< 2	< 4
	05/23/01	Analysys	< 1	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/22/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/05	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	07/10/06	HEAL	< 1.0	< 1.0	< 1.0	< 3.0
	07/25/07	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	09/23/08	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 2.0

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-18B	08/90	AS	1100	14	< 1	220
	01/91	EH	1300	< 25	< 25	170
	01/08/92	ER	1100	< 25	< 25	88
	04/22/93	ATI-A	360	< 0.5	0.5	2.6
	11/17/95	HEAL	240	24	22	53
	02/21/96	HEAL	290	54	37	110
	02/27/97	HEAL	9.4	5.2	64	1.5
	02/11/98	HEAL	0.9	6.4	120	1.1
	04/28/99	OAL	2	< 1	< 1	2.0
	05/12/00	OAL	10	< 2	12	14
	05/24/01	Analysys	2.92	< 1	< 1	< 2
	04/20/02	HEAL	0.55	< 0.50	0.72	0.89
	05/22/03	HEAL	< 0.50	5.9	< 0.50	2.5
	06/08/04	HEAL	< 0.50	< 0.50	0.91	1.2
	06/08/05	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	07/10/06	HEAL	< 1.0	< 1.0	< 1.0	< 3.0
	07/25/07	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	09/23/08	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	05/18/10	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
5-19B	08/90	AS	190	3.5	5.8	44
	01/91	EH	150	< 0.30	0.60	15
	01/08/92	ER	240	< 5.0	< 5.0	9.0
	11/20/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/21/96	HEAL	0.9	0.8	< 0.5	< 0.5
	02/27/97	HEAL	1.3	1	< 0.5	0.7
	02/11/98	HEAL	2.3	1.8	0.8	0.7
	04/28/99	OAL	43	< 1	1	3
	05/12/00	OAL	16	< 2	3	4
	05/24/01	Analysys	< 1	< 1	1.17	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/22/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-20B	08/90	AS	58	8.0	< 1	51
	01/91	EH	93	14	< 1.0	23
	01/08/92	ER	31	< 1.2	< 1.2	6.7
	04/21/93	ATI-A	14	< 0.5	6.1	10
	11/17/95	HEAL	12	2.3	< 0.5	2.6
	05/21/96	HEAL	1.7	1.3	0.8	< 0.5
	02/27/97	HEAL	12	1.3	1.8	3.3
	02/11/98	HEAL	< 0.5	1.3	2.3	0.5
	04/28/99	OAL	< 1	< 1	1	< 1
	05/12/00	OAL	1	< 2	2	< 4
	05/24/01	Analysys	3.28	< 1	< 1	< 2
	04/19/02	HEAL	0.86	< 0.50	< 0.50	< 0.50
	05/22/03	HEAL	1.0	0.91	< 0.50	< 0.50
	06/08/04	HEAL	1.1	< 0.50	< 0.50	< 0.50
	06/08/05	HEAL	1.0	0.53	< 0.50	< 0.50
	07/12/06	HEAL	1.3	< 1	< 1	< 3
	07/25/07	HEAL	< 1	< 1	< 1	< 2
	09/23/08	HEAL	< 1	< 1	< 1	< 2
	08/04/09	HEAL	< 1	< 1	< 1	< 2
	05/18/10	HEAL	< 1	< 1	< 1	< 2
5-22B	10/90	AS	< 1	< 1	< 1	< 1
	01/91	EH	< 0.50	< 0.50	< 0.50	< 0.50
	01/10/92	ER	< 0.50	< 0.50	< 0.50	< 0.50
	12/12/94	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	11/15/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/27/97	HEAL	5.6	9.3	< 0.5	65
	11/18/97	HEAL	3.8	2.3	< 0.5	0.6
5-23B	10/90	AS	5.3	< 1	< 1	< 1
	01/91	EH	3.0	< 0.50	< 0.50	< 0.60
	01/07/92	ER	0.65	< 0.50	< 0.50	< 0.50
	11/16/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/22/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/26/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/10/98	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	04/27/99	OAL	< 1	< 1	< 1	< 1
	05/11/00	OAL	< 1	< 2	< 2	< 4
	05/23/01	Analysys	< 1	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/20/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-24B	10/90	AS	63	< 1	2.0	1.6
	01/91	EH	40	0.55	0.74	< 1.0
	01/07/92	ER	120	< 2.5	< 2.5	< 2.5
	04/21/93	ATI-P	< 0.5	< 0.5	0.7	1.4
	11/17/95	HEAL	1.2	0.8	0.5	1.0
	05/21/96	HEAL	< 0.5	0.9	< 0.5	0.7
	02/26/97	HEAL	0.9	0.6	1	1.8
	02/10/98	HEAL	0.5	< 0.5	0.7	< 0.5
	04/27/99	OAL	< 1	< 1	< 1	< 1
	05/11/00	OAL	< 1	< 2	< 2	< 4
	05/23/01	Analysys	< 1	< 1	< 1	< 2
	04/19/02	HEAL	< 0.50	< 0.50	< 0.50	0.59
	05/20/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
5-34B	01/07/92	ER	120	< 2.5	< 2.5	< 2.5
	04/21/93	ATI-A	< 0.5	< 0.5	0.7	1.4
	12/13/94	HEAL	4700	13,000	460	5,900
5-35B	04/22/93	ATI-A	360	1400	130	1700
	05/18/10	HEAL	5700	< 100	310	1900
5-36E	12/14/94	HEAL	620	2700	230	3300
5-37I	02/22/96	HEAL	640	520	24	990
	08/15/96	HEAL	310	54	14	430
	11/22/96	HEAL	440	140	20	520
5-41B	10/09/92	ATI-P	47	3.9	0.7	1.0
	04/20/93	ATI-A	1.4	< 0.5	2.5	2.1
	11/16/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/25/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	08/18/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
5-47B	10/07/92	ATI-P	1.0	< 0.5	< 0.5	< 0.5
	04/20/93	ATI-A	2.9	< 0.5	< 0.5	< 0.5
	11/15/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/26/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	08/18/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
5-48B	10/12/92	ATI-P	380	1100	84	840
	04/21/93	ATI-A	99	390	34	360
	11/20/95	HEAL	820	1700	390	2600
	02/21/96	HEAL	690	1100	550	3300
	02/27/97	HEAL	1100	10000	430	4700
	02/11/98	HEAL	2100	8000	460	4600
	04/28/99	OAL	1700	4400	140	3100
	05/12/00	OAL	1400	680	270	2200
	05/22/01	Analysys	683	194	28.8	1703
	04/20/02	HEAL	1100	23	190	1700
	05/21/03	HEAL	2100	< 50	320	2700
	06/07/04	HEAL	3400	38	420	3200
	06/09/05	HEAL	2500	< 25	200	1500
5-57B	04/19/93	ATI-A	< 0.5	< 0.5	< 0.5	< 0.5
	11/15/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/25/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	08/18/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
5-58B	04/19/93	ATI-A	< 0.5	< 0.5	< 0.5	< 0.5
	11/16/95	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	05/21/96	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	02/25/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
	08/18/97	HEAL	< 0.5	< 0.5	< 0.5	< 0.5
5-59	07/28/01	Analysys	< 1	< 1	< 1	< 2
	11/19/01	Analysys	< 1	< 1	< 1	< 2
	04/20/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/21/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/09/05	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	07/11/06	HEAL	< 1.0	< 1.0	< 1.0	< 3.0
	07/25/07	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	09/23/08	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	05/18/10	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
5-60	11/18/01	Analysys	< 1	< 1	< 1	< 2
	04/20/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/21/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/09/05	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	07/11/06	HEAL	< 1.0	< 1.0	< 1.0	< 3.0
	07/25/07	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	09/23/08	HEAL	< 1.0	< 1.0	< 1.0	< 2.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 2.0

Table 3. Summary of Analytical Results for BTEX Compounds
Thoreau Compressor Station No. 5

			BTEX Concentration (ug/L)			
Well ID	Date	Lab	Benzene	Toluene	Ethyl-benzene	Total Xylenes
SVE-1	05/11/00	OAL	< 1	< 2	< 2	< 4
	11/18/01	Analysys	<1	<1	<1	<2
	04/18/02	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	05/22/03	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
	06/08/04	HEAL	< 0.50	< 0.50	< 0.50	< 0.50
SVE-3	05/18/10	HEAL	6300	< 50	430	3900
† Lab Designations						
ABB = ASEA Brown Boveri						
AEN = American Environmental Network, Inc. (Albuquerque)						
AS = Assaigai Laboratories (Albuquerque)						
ATI-A = Analytical Technologies, Inc. (Albuquerque)						
ATI-P = Analytical Technologies, Inc. (Phoenix)						
ER = Enseco (Rocky Mountain Analytical)						
EH = Enseco (Houston)						
HEAL = Hall Environmental Analysis Laboratory (Albuquerque)						
OAL = Oregon Analytical Laboratory (Portland, OR)						
NCA = North Creek Analytical (Portland, OR)						
Analysys = Analysys Inc. (Austin, TX)						
NA = Not Analyzed						

Table 4. Summary of Analytical Results for PCB Compounds
Thoreau Compressor Station No. 5

Well ID	Date	Lab †	PCB Concentration by Aroclor (µg/L)						
			1016	1221	1232	1242	1248	1254	1260
5-01B	08/89	ER	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/89	ER	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0
	03/90	ER	< 1.0	**94**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/90	ER	< 1.0	< 1.0	< 1.0	**11**	< 1.0	< 1.0	< 1.0
	08/90	AS	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0
	11/90	EH	< 1.0	< 1.0	< 1.0	**5.5**	< 1.0	< 1.0	< 1.0
	01/91	EH	< 1.0	< 1.0	< 1.0	**28**	< 1.0	< 1.0	< 1.0
	02/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	03/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/91	ER	< 1.0	**210**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/91	ER	< 1.0	**76**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/91	ER	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	01/09/92	ER	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	01/27/92	ER	< 1.0	**67**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/20/92	ER	< 1.0	**82**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	03/18/92	ATI-P	< 1.0	**54**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/29/92	ATI-P	< 1.0	**71**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/14/92	ATI-P	< 1.0	**82**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/13/94	ATI-P	**4.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/27/95	NET	< 1.0	< 1.0	< 1.0	**4.18**	< 1.0	< 1.0	< 1.0
	10/06/95	NET	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/21/95	NET	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/22/96	NET	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/17/96	NET	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/17/96	PA	< 1.0	**0.93**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/24/96	NET	< 1.0	**34**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/15/96	NET	< 1.0	**14.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/22/96	EPIC	< 1.0	**15.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/28/97	EPIC	< 1.0	**15.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/22/97	EPIC	< 1.0	**11.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/21/97	EPIC	< 1.0	**18.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4. Summary of Analytical Results for PCB Compounds
Thoreau Compressor Station No. 5

Well ID	Date	Lab †	PCB Concentration by Aroclor (µg/L)						
			1016	1221	1232	1242	1248	1254	1260
5-01C	11/23/97	EPIC	< 1.0	**79.7**	< 1.0	**49.0**	< 1.0	< 1.0	< 1.0
	01/08/98	HEAL	< 1.0	**38**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/12/98	HEAL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/11/98	HEAL	< 1.0	**38**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/02/98	HEAL	< 1.0	**10**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/29/99	OAL	**3.8**	**9.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/14/99	OAL	**4.9**	**3.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/12/00	OAL	**2.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/17/00	NCA	< 0.5	< 1.0	< 0.5	**1.9**	< 0.5	< 0.5	< 0.5
	05/22/01	Analysys	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/19/01	Analysys	--	< 0.5	< 0.5	**13.5**	< 0.5	< 0.5	< 0.5
	04/20/02	NCA	< 0.5	**1.37**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/30/02	HEAL	**1.5**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/21/03	HEAL	--	**2.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/10/03	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/07/04	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/08/05	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/11/06	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/25/07	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/23/08	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4. Summary of Analytical Results for PCB Compounds
Thoreau Compressor Station No. 5

Well ID	Date	Lab †	PCB Concentration by Aroclor (µg/L)						
			1016	1221	1232	1242	1248	1254	1260
5-06B	10/89	ER	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/89	ER	< 1.0	**180**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	01/90	ER	< 1.0	**100**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/90	ER	< 1.0	**170**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/90	ER	< 1.0	< 1.0	< 1.0	**39**	< 1.0	< 1.0	< 1.0
	08/90	AS	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0	< 1.0
	11/90	EH	< 1.0	< 1.0	< 1.0	**65**	< 1.0	< 1.0	< 1.0
	01/91	EH	< 1.0	< 1.0	< 1.0	**39**	< 1.0	< 1.0	< 1.0
	02/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	03/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/91	EH	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/91	ER	< 1.0	**250**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/91	ER	< 1.0	**140**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/91	ATI	< 1.0	**210**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/91	ER	< 1.0	**270**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	01/09/92	ER	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	01/27/92	ER	< 1.0	**190**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/20/92	ER	< 1.0	**200**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	03/18/92	ATI-P	< 1.0	**140**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/29/92	ATI-P	< 1.0	**150**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	10/14/92	ATI-P	< 1.0	**280**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	12/14/94	NET	**88**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/27/95	NET	< 1.0	< 1.0	< 1.0	**26.3**	< 1.0	< 1.0	< 1.0
	10/06/95	NET	< 1.0	< 1.0	< 1.0	**30.1**	< 1.0	< 1.0	< 1.0
	11/21/95	NET	< 1.0	< 1.0	< 1.0	**44.4**	< 1.0	< 1.0	< 1.0
	02/22/96	NET	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	04/17/96	NET	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/23/96	NET	< 1.0	**78**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/15/96	NET	< 1.0	**166.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
(split sample)	08/15/96	AEN	< 1.0	**260**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/22/96	EPIC	< 1.0	**42.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02/28/97	EPIC	< 1.0	**48.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/22/97	EPIC	< 1.0	**7.29**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/20/97	EPIC	< 1.0	**16.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4. Summary of Analytical Results for PCB Compounds
Thoreau Compressor Station No. 5

Well ID	Date	Lab †	PCB Concentration by Aroclor (µg/L)						
			1016	1221	1232	1242	1248	1254	1260
5-06C	11/23/97	EPIC	< 0.5	**160**	< 0.5	**114**	< 0.5	< 0.5	< 0.5
	12/09/97	HEAL	< 0.5	< 0.5	**65**	< 0.5	< 0.5	< 0.5	< 0.5
	01/08/98	HEAL	< 0.5	**220**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	02/12/98	HEAL	< 0.5	**320**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	06/11/98	HEAL	< 0.5	**180**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/02/98	HEAL	< 0.5	**29**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/29/99	OAL	**7.1**	**320**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/14/99	OAL	**14**	**300**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	05/13/00	OAL	**7.2**	< 0.5	< 0.5	**266**	< 0.5	< 0.5	< 0.5
Dup (5-99)	05/13/00	OAL	**6.6**	< 0.5	< 0.5	**263**	< 0.5	< 0.5	< 0.5
	11/17/00	NCA	< 0.5	< 1.0	< 0.5	**5.23**	< 0.5	< 0.5	< 0.5
Dup (5-99)	11/17/00	NCA	**4.45**	< 0.5	< 0.5	**5.17**	< 0.5	< 0.5	< 0.5
	05/22/01	Analysys	--	< 0.5	< 0.5	**3.1**	< 0.5	< 0.5	< 0.5
Dup (5-99)	05/22/01	Analysys	--	< 0.5	< 0.5	**5.81**	< 0.5	< 0.5	< 0.5
	11/18/01	Analysys	--	< 0.5	< 0.5	**43.7**	< 0.5	< 0.5	< 0.5
Dup (5-66)	11/18/01	Analysys	--	< 0.5	< 0.5	**40.5**	< 0.5	< 0.5	< 0.5
	04/20/02	NCA	< 10.0	**150**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dup (5-66)	04/20/02	NCA	< 10.0	**168**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	10/30/02	HEAL	--	**41**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/21/03	HEAL	--	**5.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/10/03	HEAL	**1.7**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/07/04	HEAL	**2.8**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/05	HEAL	**2.2**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/11/06	HEAL	**1.5**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/25/07	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0
Dup (5-61)	07/25/07	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0
	09/23/08	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-61)	09/23/08	HEAL	**1.3**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/04/09	HEAL	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-61)	08/04/09	HEAL	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/18/10	HEAL	**4.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-61)	05/18/10	HEAL	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4. Summary of Analytical Results for PCB Compounds
Thoreau Compressor Station No. 5

Well ID	Date	Lab †	PCB Concentration by Aroclor (µg/L)						
			1016	1221	1232	1242	1248	1254	1260
5-17B	05/12/00	OAL	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/17/00	NCA	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	05/23/01	Analysys	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/17/01	Analysys	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/19/02	NCA	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/31/02	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/22/03	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/11/03	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/08/04	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/08/05	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/10/06	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/25/07	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/23/08	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
5-59	07/28/01	Analysys	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/19/01	Analysys	--	< 0.5	< 0.5	**30.7**	< 0.5	< 0.5	< 0.5
	04/20/02	NCA	< 10.0	**78.6**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	10/30/02	HEAL	--	**19**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-66)	10/30/02	HEAL	--	**19**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/21/03	HEAL	--	**14**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-66)	05/21/03	HEAL	--	**14**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/11/03	HEAL	**11**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-66)	11/11/03	HEAL	**9.7**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/08/04	HEAL	**10**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-66)	06/08/04	HEAL	**11**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/05	HEAL	**4.6**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-61)	06/09/05	HEAL	**3.3**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/11/06	HEAL	**3.4**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-61)	07/11/06	HEAL	**3.3**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/25/07	HEAL	**1.8**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/23/08	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dup (5-61)	09/23/08	HEAL	**1.3**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/18/10	HEAL	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4. Summary of Analytical Results for PCB Compounds
Thoreau Compressor Station No. 5

Well ID	Date	Lab †	PCB Concentration by Aroclor (µg/L)						
			1016	1221	1232	1242	1248	1254	1260
5-60	11/18/01	Analysys	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/20/02	NCA	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/31/02	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	05/22/03	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	11/11/03	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/08/04	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	06/09/05	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/11/06	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/25/07	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	09/23/08	HEAL	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	08/04/09	HEAL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
† Lab Designations
OAL = Oregon Analytical Laboratory (Portland, OR)
NCA = North Creek Analytical (Portland, OR)
Analysys = Analysys Inc. (Austin, TX)
HEAL = Hall Environmental Analysis Laboratory (Albuquerque, NM)
†† Total PCB for purpose of this summary table and plotting is the sum of all measured Aroclor concentrations. Values reported as Non Detect are reported as zero.

Table 5. Summary of Quality Assurance Program Results
Thoreau Compressor Station No. 5

			PCBs			Benzene		Toluene		Ethylbenzene		Xylene(s)	
Date	Well ID Replicate ID	Lab	Result	Aroclor	RL	Result	RL	Result	RL	Result	RL	Result	RL
05/22/91	5-17B	EH	ND	---	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.0
	91-5-22-5-17BI	EH	ND	---	0.50	ND	0.50	ND	0.50	ND	0.50	ND	1.0
05/22/91	5-24B	EH	ND	---	0.50	4.3	0.50	ND	0.50	ND	0.50	1.3	1.0
	91-5-22-5-24BI	EH	ND	---	0.50	130	5.0	ND	0.50	ND	0.50	9.4	1.0
07/24/91	5-02B	EH	ND	---	0.50	830	250	1200	250	150	25	1300	50
	9107245-2BR	EH	ND	---	0.50	680	50	1000	50	73	50	670	100
10/03/91	5-04B	ER	ND	---	0.50	180	5.0	ND	5.0	7.8	5.0	48	5.0
	9110035-4R	ER	ND	---	0.50	86	2.5	2.5	2.5	6.5	2.5	40	2.5
10/11/91	5-18B	ER	NA	---	NA	1200	25	ND	25	ND	25	130	25
	91110115 18BR	ER	NA	---	NA	1200	25	ND	25	ND	25	110	25
11/05/91	5-06B	ER	140	1221	100	1.4	0.50	ND	0.50	ND	0.50	6.0	0.50
	6-99	ER	ND	---	1.0	1.8	0.50	ND	0.50	ND	0.50	14	0.50
12/10/91	5-06B	ER	270	1221	100	ND	0.50	ND	0.50	ND	0.50	5.0	0.50
	9112105-99	ER	170	1221	100	ND	0.50	ND	0.50	ND	0.50	5.4	0.50
01/09/92	5-01B	ER	ND	---	1.0	ND	0.50	ND	0.50	ND	0.50	ND	0.50
	5-99	ER	ND	---	1.0	ND	0.50	ND	0.50	ND	0.50	ND	0.50
01/27/92	5-06B	ER	190	1221	100	1.3	0.50	ND	0.50	ND	0.50	2.6	0.50
	9201275-99	ER	250	1221	100	3.0	0.50	ND	0.50	ND	0.50	13	0.50
02/20/92	5-01B	ER	82	1221	10	ND	0.50	ND	0.50	ND	0.50	5.2	0.50
	5-99	ER	87	1221	10	ND	0.50	ND	0.50	ND	0.50	6.7	0.50
03/18/92	5-01B	ATI	54	1221	2.5	ND	0.50	ND	0.50	ND	0.50	3.3	0.50
	5-99	ATI	65	1221	2.5	ND	0.50	ND	0.50	ND	0.50	3.9	0.50
04/29/92	5-06B	ATI	150	1221	0.50	1.4	0.50	ND	0.50	ND	0.50	3.6	0.50
	5-99	ATI	150	1221	0.50	1.3	0.50	ND	0.50	ND	0.50	2.0	0.50
10/14/92	5-06B	ATI	280	1221	5.0	1.0	0.50	ND	0.50	ND	0.50	2.8	0.50
	5-99	ATI	270	1221	5.0	1.0	0.50	ND	0.50	ND	0.50	2.6	0.50
12/14/94	5-06B	HEAL	NA	---	NA	4.3	0.50	ND	0.50	ND	0.50	0.7	0.50
	5-99	HEAL	NA	---	NA	3.2	0.50	ND	0.50	ND	0.50	ND	0.50
10/06/95	5-48B	HEAL	NA	---	NA	550	12.5	940	12.5	290	12.5	1900	12.5
	5-99	HEAL	NA	---	NA	730	20	1000	20	290	20	2300	20
11/21/95	5-02B	HEAL	NA	---	NA	740	0.50	2900	0.50	160	0.50	1100	0.50
	5-98	HEAL	NA	---	NA	670	0.50	2000	0.50	120	0.50	990	0.50
11/21/95	5-06B	HEAL/NET	44.4	1242	0.50	6.2	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL/NET	37.8	1242	0.50	NA	NA	NA	NA	NA	NA	NA	NA
02/21/96	5-48B	HEAL	NA	---	NA	690	0.50	1100	0.50	550	0.50	3300	0.50
	5-98	HEAL	NA	---	NA	580	0.50	1200	0.50	540	0.50	3100	0.50
02/22/96	5-01B	HEAL/NET	<0.065	---	0.065	4.3	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL/NET	<0.065	---	0.065	NA	NA	NA	NA	NA	NA	NA	NA
05/23/96	5-02B	HEAL	NA	---	NA	380	0.50	120	0.50	1300	0.50	1100	0.50
	5-98	HEAL	NA	---	NA	520	0.50	160	0.50	1600	0.50	1200	0.50
05/23/96	5-06B	HEAL/NET	78	---	0.065	1.2	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL/NET	<0.065	---	0.065	NA	NA	NA	NA	NA	NA	NA	NA
08/14/96	5-01B	HEAL/NET	14.2	1221	NA	<0.5	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL/NET	5.61	1221	NA	NA	NA	NA	NA	NA	NA	NA	NA
08/14/96	5-48B	HEAL	NA	---	NA	770	0.50	7600	0.50	340	0.50	3900	0.50
	5-98	HEAL	NA	---	NA	630	0.50	7900	0.50	300	0.50	3600	0.50
11/21/96	5-48B	HEAL	NA	---	NA	960	0.50	8500	0.50	330	0.50	3900	0.50
	5-98	HEAL	NA	---	NA	970	0.50	8600	0.50	330	0.50	4000	0.50
11/22/96	5-06B	HEAL/NET	42.8	1221	0.065	0.9	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL/NET	34.1	1221	0.065	NA	NA	NA	NA	NA	NA	NA	NA
02/28/97	5-02B	HEAL	NA	---	NA	260	0.50	500	0.50	90	0.50	680	0.50
	5-98	HEAL	NA	---	NA	290	0.50	510	0.50	91	0.50	690	0.50
02/28/97	5-06B	HEAL/NET	48.2	1221	0.065	0.9	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL/NET	49.7	1221	0.065	0.8	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
05/22/97	5-06B	HEAL/NET	7.29	1221	0.065	0.7	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99B	HEAL/NET	5.18	1221	0.065	NA	NA	NA	NA	NA	NA	NA	NA
05/22/97	5-18B	HEAL	NA	---	NA	<0.5	0.50	4.7	0.50	88	0.50	0.8	0.50
	5-98	HEAL	NA	---	NA	<0.5	0.50	4.3	0.50	89	0.50	0.8	0.50
08/20/97	5-06B	HEAL/EPIC	16.5	1221	0.65	0.7	0.50	<0.5	0.50	<0.5	0.50	<0.5	0.50
	5-99B	HEAL/EPIC	8.1	1221	0.065	NA	NA	NA	NA	NA	NA	NA	NA
08/20/97	5-16B	HEAL	NA	---	NA	130	0.50	820	0.50	120	0.50	1300	0.50
	5-98	HEAL	NA	---	NA	130	0.50	790	0.50	120	0.50	1200	0.50
11/19/97	5-48B	HEAL	NA	---	NA	1400	0.50	6900	0.50	330	0.50	3900	0.50
	5-98	HEAL	NA	---	NA	1600	0.50	7300	0.50	330	0.50	4100	0.50
02/11/98	5-16B	HEAL	NA	---	NA	41	0.50	360	0.50	90	0.50	660	0.50
	5-98	HEAL	NA	---	NA	45	0.50	350	0.50	91	0.50	650	0.50
02/12/98	5-06C	HEAL	320	1221	5.0	2.2	0.50	1.4	0.50	<0.5	0.50	1.3	0.50
	5-99	HEAL	280	1221	5.0	NA	NA	NA	NA	NA	NA	NA	NA
06/11/98	5-06C	HEAL	180	1221	5.0	1.2	0.50	0.6	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL	190	1221	5.0	NA	NA	NA	NA	NA	NA	NA	NA
06/11/98	5-48B	HEAL	NA	---	NA	2100	0.50	8000	0.50	200	0.50	3800	0.50
	5-98	HEAL	NA	---	NA	2000	0.50	7900	0.50	210	0.50	3800	0.50
10/01/98	5-02C	HEAL	NA	---	NA	1300	0.50	3500	0.50	230	0.50	1800	0.50
	5-98	HEAL	NA	---	NA	1300	0.50	3400	0.50	230	0.50	1800	0.50
10/01/98	5-06C	HEAL	29	1221	5.0	1.5	0.50	1.3	0.50	<0.5	0.50	<0.5	0.50
	5-99	HEAL	33	1221	5.0	NA	NA	NA	NA	NA	NA	NA	NA
04/28/99	5-02C	OAL	NA	---	NA	1500	1	4400	1	260	1	2500	1
	5-98	OAL	NA	---	NA	1500	1	4400	1	250	1	2400	1
04/28/99	5-06C	OAL	7.1/320	1061/1221	1.5/1.0	<1	1	<1	1	<1	1	<1	1
	5-99	OAL	6.3/280	1061/1221	0.5/1.0	NA	NA	NA	NA	NA	NA	NA	NA

Table 5. Summary of Quality Assurance Program Results
Thoreau Compressor Station No. 5

			PCBs			Benzene		Toluene		Ethylbenzene		Xylene(s)	
Date	Well ID Replicate ID	Lab	Result	Aroclor	RL	Result	RL	Result	RL	Result	RL	Result	RL
10/12/99	5-48B	OAL	NA	---	NA	1000	50	1900	100	320	100	2900	200
	5-98	OAL	NA	---	NA	960	50	1800	100	300	100	2600	200
10/14/99	5-06C	OAL	14/300	1061/1221	5.0/10	<1	1	<2	2	<2	2	<4	4
	5-99	OAL	14/290	1061/1221	5.0/10	NA	NA	NA	NA	NA	NA	NA	NA
05/12/00	5-16B	OAL	NA	---	NA	600	5	290	10	92	10	360	20
	5-98	OAL	NA	---	NA	510	10	200	20	70	20	270	40
05/13/00	5-06C	OAL	7.2/266	1061/1221	5.0/10	1	1	<2	2	<2	2	<4	4
	5-99	OAL	6.6/263	1061/1221	5.0/10	NA	NA	NA	NA	NA	NA	NA	NA
11/17/00	5-02C	NCA	NA	---	NA	671	0.500	1000	0.500	372	0.500	3820	20.0
	5-98	NCA	NA	---	NA	623	0.500	972	0.500	358	0.500	3730	20.0
11/17/00	5-06C	NCA	<0.5/5.23	1016/1242	0.500	<0.500	0.500	<0.500	0.500	<0.500	0.500	<1	1.00
	5-99	NCA	4.45/5.17	1016/1242	0.500/0.500	NA	0.500	NA	0.500	NA	0.500	NA	1.00
05/22/01	5-06C	Analysys	3.1	1016/1242	1	<1	0.500	<1	0.500	<1	0.500	<2	1.00
	5-99	Analysys	5.81	1016/1242	1	NA	NA	NA	NA	NA	NA	NA	NA
05/24/01	5-16B	Analysys	NA	---	NA	1240	100	487	100	174	100	1105	100
	5-98	Analysys	NA	---	NA	1220	100	466	100	181	100	1184	100
11/17/01	5-02C	Analysys	NA	---	NA	587	100	15.2	100	365	100	3622	100
	5-65	Analysys	NA	---	NA	577	100	15.6	100	401	100	3890	100
11/18/01	5-06C	Analysys	43.7	1016/1242	0.5	1.19	1	<1	1	<1	1	<2	2
	5-66	Analysys	40.5	1016/1242	0.5	NA	NA	NA	NA	NA	NA	NA	NA
04/20/02	5-02C	HEAL	NA	---	NA	450	10	ND	10	300	10	3100	10
	5-65	HEAL	NA	---	NA	450	10	ND	10	300	10	3200	10
04/20/02	5-06C	HEAL	150	1221	1.00	1.1	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50
	5-66	HEAL	168	1221	20.0	NA	NA	NA	NA	NA	NA	NA	NA
10/30/02	5-59	HEAL	19	1016/1221	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
	5-66	HEAL	19	1016/1221	1.0	NA	NA	NA	NA	NA	NA	NA	NA
10/31/02	5-02C	HEAL	NA	---	NA	330	5.0	ND	5.0	230	5.0	2000	5.0
	5-65	HEAL	NA	---	NA	350	20	3.2	2.5	230	20	2200	20
05/22/03	5-02C	HEAL	NA	---	NA	290	10	ND	10	200	10	800	10
	5-67	HEAL	NA	---	NA	290	10	ND	10	190	10	780	10
05/22/03	5-59	HEAL	14	1016/1221	1.0	ND	0.5	ND	0.5	ND	0.5	ND	0.5
	5-66	HEAL	14	1016/1221	1.0	NA	NA	NA	NA	NA	NA	NA	NA
11/11/03	5-02C	HEAL	NA	---	NA	450	2.5	ND	2.5	240	2.5	770	2.5
	5-66	HEAL	NA	---	NA	490	2.5	ND	2.5	240	2.5	770	2.5
11/11/03	5-59	HEAL	11	1016	1.0	ND	0.5	ND	0.5	ND	0.5	ND	0.5
	5-66	HEAL	9.7	1016	1.0	NA	NA	NA	NA	NA	NA	NA	NA
06/08/04	5-02C	HEAL	NA	---	NA	270	25	28	25	160	25	1000	25
	5-66	HEAL	NA	---	NA	280	5	28	5	170	5	1100	5
06/08/04	5-59	HEAL	10	1016	1.0	ND	0.5	ND	0.5	ND	0.5	ND	0.5
	5-61	HEAL	11	1016	1.0	NA	NA	NA	NA	NA	NA	NA	NA
06/08/05	5-16B	HEAL	NA	---	NA	1400	5	< 5	5	160	5	520	5
	5-68B	HEAL	NA	---	NA	1900	5	< 5	5	200	5	920	5
07/10/06	5-16B	HEAL	NA	---	NA	1600	20	< 20	20	150	20	380	60
	5-61	HEAL	NA	---	NA	1400	20	< 20	20	140	20	420	60
07/11/06	5-59	HEAL	3.4	1016	1.0	ND	1.0	ND	1.0	ND	1.0	ND	3.0
	5-61	HEAL	3.3	1016	1.0	NA	NA	NA	NA	NA	NA	NA	NA
07/25/07	5-06C	HEAL	1.1	1248	1.00	<1	1	<1	1	<1	1	<2	2
	5-61	HEAL	1.1	1248	1.00	NA	NA	NA	NA	NA	NA	NA	NA
07/25/07	5-16B	HEAL	NA	---	NA	1700	20	< 20	20	170	20	590	40
	5-61	HEAL	NA	---	NA	1500	20	< 20	20	150	20	380	40
09/23/08	5-06C	HEAL	<1/<5	---	1.0/5.0	<1	1	<1	1	<1	1	<2	2
	5-61	HEAL	1.3	1016	1.0	NA	NA	NA	NA	NA	NA	NA	NA
09/23/08	5-16B	HEAL	NA	---	NA	1900	20	< 20	20	180	20	600	10
	5-61	HEAL	NA	---	NA	1700	20	< 20	20	190	20	680	10
08/04/09	5-6C	HEAL	1.3	1016	1.0	<1	1	<1	1	<1	1	<2	2
	5-61	HEAL	1.7	1016	1.0	NA	NA	NA	NA	NA	NA	NA	NA
08/04/09	5-16B	HEAL	NA	---	NA	1300	50	< 5	5	150	5	590	10
	5-61	HEAL	NA	---	NA	1300	50	< 5	5	120	5	500	10
05/18/10	5-6C	HEAL	4.9	1016	1.0	<1	1	<1	1	<1	1	<2	2
	5-61	HEAL	2.0	1016	1.0	NA	NA	NA	NA	NA	NA	NA	NA
05/18/10	SVE-3	HEAL	NA	---	NA	6300	100	<50	50	430	50	3900	100
	5-61	HEAL	NA	---	NA	6300	100	17	10	490	10	3500	200

† Lab Designations
ATI-A = Analytical Technologies, Inc. (Albuquerque)
ATI-P = Analytical Technologies, Inc. (Phoenix)
ER = Enseco (Rocky Mountain Analytical)
EH = Enseco (Houston)
HEAL = Hall Environmental Analysis Laboratory (Albuquerque)
NET - National Environmental Testing, INC.
OAL - Oregon Analytical Laboratory
NA = Not Analyzed

Table 6. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
Thoreau Compressor Station No. 5

Well ID	Analytical Requirements for Annual Event	Benzene (ppb) Last Sample Event	PCBs (ppb) Last Sample Event	Comments
5-01C	none	<1	<1	clean upgradient well
5-02B	none	---	---	not enough water to collect a sample
5-02C	BTEX	300	---	replacement for 02B; intermittent PSH
5-03B	none	<0.5	---	clean upgradient well
5-04B	none	---	---	dry
5-05B	none	2.5	---	clean perimeter well
5-06C	BTEX & PCBs	<1	4.9	has tested positive for PCBs
5-12B	none	<0.5	---	clean downgradient well
5-13B	none	<0.5	---	clean downgradient well
5-14B	none	<0.5	---	clean downgradient well
5-15B	none	<0.5	---	clean perimeter well
5-16B	BTEX	3800	---	impacted well
5-17B	none	<1	<1	clean downgradient well
5-18B	BTEX	<1	---	clean downgradient well
5-19B	none	<0.5	---	clean perimeter well
5-20B	BTEX	<1	---	clean downgradient well
5-22B	none	---	---	not enough water to collect a sample
5-23B	none	<0.5	---	clean downgradient well
5-24B	none	<0.5	---	clean downgradient well
5-34B	none	---	---	remediation system well
5-35B	BTEX	5700	---	recently added well to SAP
5-36E	none	---	---	pilot test well not suitable for sampling
5-37I	none	---	---	pilot test well not suitable for sampling
5-41B	none	---	---	clean downgradient well
5-48B	none	2500	---	dry
5-59	BTEX & PCBs	<1	1.3	has tested positive for PCBs
5-60	none	<1	<1	clean perimeter well
SVE-1	none	<0.5	---	dry
SVE-2	none	---	---	dry
SVE-3	BTEX	6300	---	recently added well to SAP
SVE-4	none	---	---	remediation system well

Notes:
1) BTEX - BTEX Compounds by either EPA Method 8021B or EPA Method 8260
2) PCBs - Polychlorinated Biphenyls by EPA Method 8082

Table 7. Summary of Completion Details for Soil Borings Completed as Wells
Thoreau Compressor Station No. 5

Well	Source[a]	Date of Completion	Measuring Point Elevation (ft)	Northing (ft)	Easting (ft)	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
5 01C	Layne Christensen/CES	11/17/97	7,292.11 (c)	52.73	-35.22	55.0	na	stick up	2	44.5-54.5	42.5
5-02B	na	05/12/89	7,292.06 (b)	58.60	-145.02	55.5	56.69	flush mount	2	37.5-51.0	ns
5 02C	Layne Christensen/CES	11/15/97	7,291.82 (c)	49.32	-155.28	58.5	62.10	flush mount	2	42.0-57.0	40
5-03B	na	05/11/89	7,303.76 (b)	440.30	-109.97	58.0	55.60	flush mount	2	41.0-54.5	na
5-04B	Western Tech./DBS	09/16/89	7,292.39 (b)	15.05	-231.56	58.8	58.08	flush mount	2	38.7-57.2	36.9
5-05B	Western Tech./DBS	09/19/89	7,290.83 (b)	12.86	-152.20	59.5	62.02	flush mount	2	39.5-58.0	37.5
5 06C	Layne Christensen/CES	11/18/97	7,291.46 (c)	9.38	-10.62	62.5	na	stick up	2	47.0-62.0	44.9
5-12B	Stewart Brothers/DBS	06/28/90	7,279.61 (b)	-387.48	-89.37	65.0	na	flush mount	2	45.0-65.0	41.4
5-13B	Stewart Brothers/DBS	06/28/90	7,282.43 (b)	-369.35	-261.04	69.4	na	flush mount	2	49.3-69.4	45.0
5-14B	Stewart Brothers/DBS	06/27/90	7,285.76 (b)	-357.23	-441.25	72.3	na	flush mount	2	42.3-72.3	48.4
5-15B	Stewart Brothers/DBS	06/29/90	7,292.92 (b)	-87.47	-344.34	65.6	na	flush mount	2	45.6-65.6	41.5
5-16B	Western Tech./DBS	07/05/90	7,288.82 (b)	-145.56	-248.38	64.6	65.4	flush mount	2	34.6-64.6	33.5
5-17B	Western Tech./DBS	07/03/90	7,284.75 (b)	-88.53	-40.96	63.9	64.2	flush mount	2	33.9-63.9	31.2
5-18B	Western Tech./DBS	07/09/90	7,286.41 (b)	-256.43	-309.06	69.9	na	flush mount	2	49.9-69.9	43.4
5-19B	Western Tech./DBS	07/10/90	7,290.52 (b)	-157.69	-330.24	63.3	65.05	flush mount	2	43.3-63.3	37.5
5-20B	Western Tech./DBS	07/11/90	7,284.60 (b)	-261.92	-172.12	64.0	na	flush mount	2	33.9-63.9	28.3
5-22B	Stewart Brothers/DBS	09/13/90	7,292.74 (b)	88.16	-198.69	55.8	54.9	flush mount	2	45.8-55.8	42.2
5-23B	Stewart Brothers/DBS	09/21/90	7,282.63 (b)	-450.52	-315.67	80.1	na	flush mount	2	50.1-80.1	42.7
5-24B	Stewart Brothers/DBS	09/25/90	7,279.18 (b)	-460.67	-211.48	75.5	na	flush mount	2	45.5-75.5	36.5
5-34B	Ward Drilling Co./DBS	03/31/92	7,294.71 (b)	25.97	-306.80	65.7	63.10	flush mount	4	34.0-64.0	33.0
5-35B	Ward Drilling Co./DBS	04/05/92	7,296.11 (b)	37.30	-289.09	70.0	62.21	stick up	4	31.3-61.3	28.4
5-36E	Ward Drilling Co./DBS	04/09/92	7,296.56 (b)	30.28	-287.13	67.5	68.51	stick up	4	47.7-62.3	43.4
5-37I	Ward Drilling Co./DBS	04/16/92	7,296.31 (b)	44.48	-290.76	72.5	61.72	stick up	4	52.1-59.8	51.4
5-41B	Stewart Brothers/DBS	07/24/92	7,279.73 (b)	-603.88	-174.07	77.0	na	flush mount	2	55.0-72.0	53.0
5-47B	Stewart Brothers/DBS	08/04/92	7,268.35 (b)	-862.86	-104.00	80.0	na	abandoned	2	59.5-76.5	57.5
5-48B	Stewart Brothers/DBS	08/05/92	7,292.64 (b)	-34.33	-271.94	63.7	59.68	flush mount	2	43.0-60.0	41.0
5-57B	Stewart Brothers/DBS	03/04/93	7,257.80	-1014.77	-109.30	76.2	na	abandoned	2	60.0-75.0	57.9
5-58B	Stewart Brothers/DBS	03/03/93	7,279.38	-682.60	-340.89	78.1	na	abandoned	2	61.2-76.2	58.9
5-59	Rodgers & Co.	07/27/01	7290.82 (d)	29.53	-2.43	56.0	55.23	stick up	4	41.0-56.0	38.0
5-60	Rodgers & Co.	07/27/01	7290.83 (d)	11.62	-30.66	56.0	57.41	stick up	4	41.0-56.0	38.0
SVE-1	Techna/DBS	03/29/96	7,296.88 (c)	37.08	-356.25	60.0	61.55	flush mount	2	35.0-60.0	33.3
SVE-2	Techna/DBS	03/29/96	7,297.68 (c)	42.46	-409.54	61.0	61.59	flush mount	2	35.0-60.0	33.6
SVE-3	Layne Christensen/CES	11/16/1997	7,293.68 (c)	-21.30	-271.04	65.0	65.54	flush mount	2	44.0 - 64.0	41.9
SVE-4	Layne Christensen/CES	11/16/1997	7,289.83 (c)	-123.39	-243.36	62.5	62.03	flush mount	2	42.0 - 62.0	40.0
AS-1	Techna/DBS	03/29/96	na	46.99	-327.63	60.5	na	flush mount	2	56.0-58.5	54.8
AS-2	Techna/DBS	03/27/96	na	45.70	-302.63	61.0	na	flush mount	2	57.5-60.0	56.5
AS-3	Techna/DBS	03/27/96	na	44.41	-277.63	59.5	na	flush mount	2	57.0-59.5	56.0
AS-4	Techna/DBS	03/27/96	na	43.11	-252.35	60.3	na	flush mount	2	57.8-60.3	55.6
AS-5	Techna/DBS	03/27/96	na	41.82	-227.35	58.0	na	flush mount	2	55.5-58.0	54.1
AS-6	Techna/DBS	03/29/96	7,295.62 (c)	23.02	-341.69	59.0	57.57	flush mount	2	56.5-59.0	55.0
AS-7	Techna/DBS	03/27/96	7,295.72 (c)	21.31	-316.55	60.0	59.29	flush mount	2	57.0-59.5	55.5
AS-8	Techna/DBS	03/27/96	7,294.45 (c)	20.25	-292.07	61.0	62.18	flush mount	2	58.5-61.0	57.2
AS-9	Techna/DBS	03/27/96	7,293.76 (c)	18.29	-266.75	59.8	59.31	flush mount	2	57.1-59.6	54.0
AS-10	Techna/DBS	03/27/96	7,293.90 (c)	16.75	-241.70	60.3	61.31	flush mount	2	57.8-60.3	56.4
AS-11	Techna/DBS	03/27/96	7,293.05 (c)	15.96	-217.21	60.0	60.69	flush mount	2	57.0-59.5	55.4
AS-12	Layne Christensen/CES	11/21/1997	7,295.22 (c)	-5.04	-332.45	64.5	65.93	flush mount	2	62.0 - 64.0	59.0
AS-13	Layne Christensen/CES	11/21/1997	7,294.58 (c)	-6.15	-306.17	68.0	68.37	flush mount	2	65.5 - 67.5	62.0
AS-14	Layne Christensen/CES	11/20/1997	7,293.98 (c)	-7.89	-280.13	64.5	64.46	flush mount	2	62.0 - 64.0	58.0
AS-15	Layne Christensen/CES	11/20/1997	7,293.40 (c)	-8.43	-259.05	64.0	62.82	flush mount	2	61.5 - 63.5	58.0
AS-16	Layne Christensen/CES	11/19/1997	7,293.27 (c)	-11.17	-237.02	65.0	64.96	flush mount	2	62.0 - 64.0	57.0

NOTES:
na - Information not available
(a) Driller/Consultant
(b) Survey done by Bob Martinez 8/92
(c) Survey done by Cypress Engineering 1/98
(d) Survey done by Cypress Engineering 9/08

Table 8. Summary of SVE System Monitoring Results
Thoreau Compressor Station No. 5

Sample Source	Date	Gasoline Range VOCs	< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ug/L)	(%)									
SVE-1	11/22/96	1,400	0.0	0.7	46.7	39.7	4.9	0.1	0.0	0.0	0.0	0.0
5-04B	11/22/96	210	0.0	2.0	8.2	35.3	43.0	9.8	1.2	0.3	0.2	0.0
5-34B	11/22/96	3,000	0.0	6.4	18.3	59.4	14.9	1.0	0.0	0.0	0.0	0.0
5-35B	11/22/96	120	0.0	12.9	28.2	32.5	16.7	7.8	1.7	0.2	0.0	0.0
SVE-1	08/21/97	47	0.1	0.2	0.6	4.2	14.8	30.6	23.9	16.6	8.9	0.1
5-02B	08/21/97	490	1.4	13.5	34.0	41.7	7.1	1.3	0.6	0.4	0.0	0.0
5-04B	08/21/97	530	0.0	0.1	1.6	9.0	39.8	38.1	8.2	2.8	0.4	0.0
5-05B	08/21/97	44	0.1	0.2	0.6	4.2	14.2	31.4	23.9	16.5	8.8	0.1
5-34B	08/21/97	7,700	0.2	1.4	6.5	26.6	23.8	26.7	11.3	3.0	0.5	0.0
SVE-1	11/24/97	19	0.4	0.7	1.2	2.3	10.4	22.6	23.2	27.7	11.1	0.4
SVE-3	11/24/97	900	0.0	3.5	9.2	16.9	25.4	27.9	11.1	5.1	0.9	0.0
SVE-4	11/24/97	590	0.0	2.2	11.8	27.9	30.6	15.8	6.7	4.2	0.8	0.0
5-02B	11/24/97	10	0.0	5.0	13.1	14.6	15.5	15.2	21.8	11.1	3.7	0.0
5-04B	11/24/97	290	0.0	1.9	3.4	8.8	35.2	32.7	11.3	4.9	1.8	0.0
5-05B	11/24/97	6.7	0.0	0.0	0.6	3.1	19.9	22.9	28.0	15.6	9.6	0.3
5-34B	11/24/97	4,400	0.0	1.0	4.6	23.5	38.9	24.9	1.8	1.9	1.3	2.1
5-35B	11/24/97	1,600	0.0	0.1	1.0	7.1	16.6	28.6	31.6	12.8	2.2	0.0
SVE-1	01/07/98	130	0.0	0.1	0.3	0.8	12.2	30.2	32.2	17.7	6.5	0.0
SVE-3	01/07/98	720	0.1	6.6	12.0	14.5	18.9	19.1	17.7	8.4	2.7	0.0
SVE-4	01/07/98	710	0.1	3.1	9.7	16.5	26.9	19.8	15.5	6.4	2.0	0.0
5-02B	01/07/98	250	0.1	14.3	37.7	27.6	8.0	2.4	4.4	3.6	1.9	0.0
5-04B	01/07/98	44	0.0	0.0	0.2	0.9	8.1	32.1	33.9	17.4	7.4	0.0
5-05B	01/07/98	69	0.0	0.1	0.2	0.4	6.1	21.1	34.9	25.5	11.7	0.0
5-34B	01/07/98	7,100	0.1	2.0	5.7	21.5	38.6	22.0	8.3	1.7	0.1	0.0
5-35B	01/07/98	1,800	0.0	0.2	1.0	3.7	26.8	36.3	22.1	8.3	1.6	0.0

Table 8. Summary of SVE System Monitoring Results
Thoreau Compressor Station No. 5

Sample Source	Date	Gasoline Range VOCs	< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ug/L)	(%)									
Total Flow	08/21/02	298	0.0	11.1	12.4	22.3	15.7	22.8	10.5	5.0	0.2	0.0
Total Flow	06/19/03	381	0.0	6.1	16.8	23.7	13.1	17.2	11.7	8.5	2.9	0.0
Total Flow	07/30/03	218	0.0	7.6	23.5	23.7	15.8	14.0	9.5	5.4	0.5	0.0
Total Flow	09/03/03	312	0.0	7.3	18.2	21.0	12.6	18.6	12.8	7.0	2.5	0.0
Total Flow	10/03/03	293	1.5	7.5	19.0	19.5	12.8	15.0	14.7	7.3	2.7	0.0
Total Flow	10/30/03	268	2.6	4.6	16.5	30.8	13.1	12.2	13.6	5.7	0.9	0.0
Total Flow	05/11/04	322	0.2	16.4	27.8	22.8	14.1	10.1	5.9	1.2	1.2	0.3
Total Flow	06/16/04	241	6.7	14.0	25.5	27.2	12.8	7.7	4.8	1.2	0.1	0.0
Total Flow	07/13/04	367	2.4	9.4	19.6	22.1	11.8	11.1	13.1	7.7	2.8	0.0
Total Flow	08/10/04	291	4.0	10.3	22.9	25.3	12.8	9.5	9.4	4.3	1.3	0.2
Total Flow	09/14/04	276	0.9	9.2	21.9	26.2	13.4	10.4	10.6	5.7	1.7	0.0
Total Flow	10/13/04	262	1.1	8.5	20.8	24.0	13.3	10.3	11.7	7.1	3.2	0.0
Total Flow	05/27/05	346	7.4	13.9	22.1	26.2	11.8	6.8	5.8	3.7	2.1	0.2
Total Flow	06/24/05	415	2.1	14.7	23.0	23.4	12.7	8.0	8.4	4.9	2.7	0.1
Total Flow	07/28/05	296	4.1	10.2	23.0	26.0	13.6	8.3	7.7	5.0	2.1	0.0
Total Flow	09/07/05	302	3.5	9.3	21.2	29.3	14.2	8.0	6.9	5.4	2.2	0.0
Total Flow	10/07/05	241	3.9	10.0	22.3	31.6	14.6	8.7	5.7	2.8	0.4	0.0
Total Flow	05/31/06	218	10.4	13.2	24.5	26.7	12.4	6.1	5.5	1.2	0.0	0.0
Total Flow	06/28/06	139	8.5	12.2	23.3	27.9	12.8	5.1	6.4	1.6	1.8	0.4
Total Flow	07/26/06	162	7.6	12.9	24.8	27.3	14.2	6.5	5.0	1.4	0.3	0.0
Total Flow	08/23/06	177	6.7	11.7	24.5	27.4	14.5	8.5	4.5	1.8	0.4	0.0
Total Flow	09/25/06	152	6.8	12.2	25.8	28.4	14.9	6.1	4.3	1.3	0.2	0.0
Total Flow	05/25/07	104	3.0	10.2	17.6	32.9	14.4	10.1	7.1	3.8	0.9	0.0
Total Flow	07/13/07	190	--	6.1	50.5	24.3	8.2	9.9	0.6	0.4	0.0	0.0
Total Flow	08/24/07	158	2.3	14.5	25.4	36.6	9.3	5.1	6.0	0.8	0.0	0.0
Total Flow	09/21/07	148	2.3	9.9	31.7	33.5	12.0	5.6	3.5	1.3	0.2	0.0
Total Flow	10/25/07	140	5.3	6.0	20.5	33.1	20.4	8.1	4.8	1.6	0.2	0.0
Total Flow	06/09/08	133	3.3	12.9	23.0	31.7	16.8	6.5	4.3	1.2	0.3	0.0
Total Flow	07/11/08	108	6.4	12.2	23.3	31.8	15.7	5.9	3.5	1.1	0.1	0.0
Total Flow	08/04/08	104	3.1	12.3	23.9	32.2	16.3	6.5	4.6	0.8	0.3	0.0
Total Flow	09/05/08	161	--	9.7	24.1	34.2	16.3	10.6	3.1	1.7	0.3	0.0
Total Flow	10/03/08	121	5.9	11.3	25.7	33.5	14.2	4.2	4.9	0.2	0.1	0.0
Total Flow	10/22/08	121	5.2	10.5	24.9	33.4	12.2	8.8	4.5	0.5	0.0	0.0
Total Flow	05/29/09	160	--	12.9	26.3	36.9	13.1	8.7	1.3	0.7	0.1	0.0
Total Flow	06/26/09	145	--	8.8	26.1	39.3	15.0	8.2	1.6	0.5	0.5	0.0
Total Flow	07/31/09	129	--	8.3	26.7	36.7	17.7	6.9	2.1	1.2	0.4	0.0
Total Flow	08/20/09	155	--	12.0	28.4	34.1	15.9	6.4	1.9	0.9	0.4	0.0
Total Flow	09/25/09	163	--	8.7	34.1	35.4	14.4	5.4	1.3	0.5	0.2	0.0
Total Flow	10/20/09	164	--	8.3	27.3	41.3	14.9	6.9	0.9	0.3	0.1	0.0
Total Flow	06/04/10	119	--	9.2	29.1	34.4	14.6	8.1	2.6	1.4	0.5	0.1
Total Flow	07/02/10	185	0.0	14.2	29.0	31.5	13.5	10.0	1.3	0.3	0.2	0.0
Total Flow	08/06/10	296	--	13.1	22.2	37.1	10.4	15.8	0.7	0.2	0.3	0.2
Total Flow	09/09/10	103	--	12.8	29.3	35.1	16.3	5.0	0.9	0.4	0.2	0.0

All air samples analyzed by Hall Laboratory of Albuquerque, NM

APPENDICES

O & M REPORTS

June 9, 2010

George C. Robinson, P.E.
Cypress Engineering Services, Inc.
7171 Highway 6 North, Ste 102
Houston, TX 77095-2422

Re: Summary of Remediation System Operation and Maintenance for May/June 2010
Thoreau Compressor Station No. 5, McKinley County, New Mexico

Dear Mr. Robinson:

The soil vapor extraction system was reactivated at Thoreau Compressor Station No. 5 in May, 2010. A summary of maintenance activities through June 7, 2010 are outlined in the attached table.

On June 4, 2010, we collected an exhaust sample from the system and submitted it to Hall Environmental Analysis Laboratory (HEAL) for total petroleum hydrocarbon analysis. HEAL will send the analytical report directly to you.

Please feel free to contact me or Bob Marley at (505) 822-9400 with any questions that you may have on the submitted materials.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Elizabeth Bastien

Elizabeth Bastien
Staff Hydrologist

Daniel B. Stephens & Associates, Inc.
6020 Academy NE, Suite 100 505-822-9400
Albuquerque, NM 87109 FAX 505-822-8877

Operation and Maintenance Activities for May/June 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
5/20/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
5/24/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
6/1/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured

Operation and Maintenance Activities for May/June 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
6/4/2010	Justin Jayne	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges at 9:30 and recorded all measurements ▪ Collected air exhaust sample at 9:45, [Thoreau-20100604] ▪ Shut down system ▪ Measured fluid levels ▪ Checked air filter: filter OK. ▪ Knockout pot empty ▪ Restarted system at 10:30	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	77.0	37	40	5-2C: 57.14 5-34B: 61.71 SVE-3: 59.96	5-2C: 57.20 5-34B: 61.75 SVE-3: 59.965
6/7/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected, NR = Not Recorded

July 14, 2010

George C. Robinson, P.E.
Cypress Engineering Services, Inc.
7171 Highway 6 North, Ste 102
Houston, TX 77095-2422

Re: Summary of Remediation System Operation and Maintenance for June 2010
Thoreau Compressor Station No. 5, McKinley County, New Mexico

Dear Mr. Robinson:

The soil vapor extraction system was reactivated at Thoreau Compressor Station No. 5 in June 2010. A summary of maintenance activities through July 2, 2010 are outlined in the attached table.

On July 2, 2010, we collected an exhaust sample from the system and submitted it to Hall Environmental Analysis Laboratory (HEAL) for total petroleum hydrocarbon analysis. HEAL will send the analytical report directly to you.

Please feel free to contact me or Bob Marley at (505) 822-9400 with any questions that you may have on the submitted materials.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Elizabeth Bastien
Staff Hydrologist

Daniel B. Stephens & Associates, Inc.
6020 Academy NE, Suite 100 505-822-9400
Albuquerque, NM 87109 FAX 505-822-8877

Operation and Maintenance Activities for June 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
6/15/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
6/21/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
6/28/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter. Pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured

Operation and Maintenance Activities for June 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
7/2/2010	Elizabeth Bastien	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges at 10:00 and recorded all measurements ▪ Collected air exhaust sample at 10:20, [Thoreau-20100702] ▪ Shut down system ▪ Measured fluid levels ▪ Placed Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3. ▪ Checked air filter: filter OK. ▪ Knockout pot empty ▪ Restarted system at 11:20	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	80.1	37	40	5-2C: 57.11 5-34B: ND SVE-3: ND	5-2C: 57.16 5-34B: 61.55 SVE-3: 59.97

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected, NR = Not Recorded

August 20, 2010

George C. Robinson, P.E.
Cypress Engineering Services, Inc.
7171 Highway 6 North, Ste 102
Houston, TX 77095-2422

Re: Summary of Remediation System Operation and Maintenance for July 2010
Thoreau Compressor Station No. 5, McKinley County, New Mexico

Dear Mr. Robinson:

A summary of maintenance activities for the month of July 2010 are outlined in the attached table.

On August 6, 2010, we collected an exhaust sample from the system and submitted it to Hall Environmental Analysis Laboratory (HEAL) for total petroleum hydrocarbon analysis. HEAL will send the analytical report directly to you.

Please feel free to contact me or Bob Marley at (505) 822-9400 with any questions that you may have on the submitted materials.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Elizabeth Bastien
Staff Hydrologist

Daniel B. Stephens & Associates, Inc.
6020 Academy NE, Suite 100 505-822-9400
Albuquerque, NM 87109 FAX 505-822-8877

Operation and Maintenance Activities for July 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
7/05/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
7/12/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
7/20/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter. Pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured

Operation and Maintenance Activities for July 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
7/26/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Shut down system to check air filter. Pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
8/6/2010	Chad Johannesen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges at 10:00 and recorded all measurements ▪ Collected air exhaust sample at 10:15, [Thoreau-20100806] ▪ Shut down system ▪ Measured fluid levels ▪ Reused last months Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3. ▪ Checked air filter: filter OK. ▪ Knockout pot empty ▪ Restarted system, 11:20am	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	79.7 Tout= 67.1	38	41	5-2C: ND 5-34B: ND SVE-3: ND	5-2C: 57.41 5-34B: 60.89 SVE-3: 60.11

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected, NR = Not Recorded

September 16, 2010

George C. Robinson, P.E.
Cypress Engineering Services, Inc.
7171 Highway 6 North, Ste 102
Houston, TX 77095-2422

Re: Summary of Remediation System Operation and Maintenance for August 2010
Thoreau Compressor Station No. 5, McKinley County, New Mexico

Dear Mr. Robinson:

A summary of maintenance activities for the month of August 2010 are outlined in the attached table.

On September 9, 2010, we collected an exhaust sample from the system and submitted it to Hall Environmental Analysis Laboratory (HEAL) for total petroleum hydrocarbon analysis. HEAL will send the analytical report directly to you.

Please feel free to contact me or Bob Marley at (505) 822-9400 with any questions that you may have on the submitted materials.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Elizabeth Bastien

Elizabeth Bastien
Staff Hydrologist

Daniel B. Stephens & Associates, Inc.
6020 Academy NE, Suite 100 505-822-9400
Albuquerque, NM 87109 FAX 505-822-8877

Operation and Maintenance Activities for August 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
8/09/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
8/16/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
8/23/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured

Operation and Maintenance Activities for August 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
8/30/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
9/6/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
9/9/2010	Elizabeth Bastien	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges at 11:31 and recorded all measurements ▪ Collected air exhaust sample at 11:40, [Thoreau-20100909] ▪ Shut down system ▪ Measured fluid levels ▪ Placed new Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3. ▪ Checked air filter: filter OK. ▪ Knockout pot empty ▪ Restarted system, 12:50pm	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	76.5	38	40	5-2C: ND 5-34B: ND SVE-3: ND	5-2C: 57.34 5-34B: 60.80 SVE-3: 60.15

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected, NR = Not Recorded

October 25, 2010

George C. Robinson, P.E.
Cypress Engineering Services, Inc.
7171 Highway 6 North, Ste 102
Houston, TX 77095-2422

Re: Summary of Remediation System Operation and Maintenance for September 2010
Thoreau Compressor Station No. 5, McKinley County, New Mexico

Dear Mr. Robinson:

A summary of maintenance activities for the month of September 2010 are outlined in the attached table.

On October 13, 2010, we collected an exhaust sample from the system and submitted it to Hall Environmental Analysis Laboratory (HEAL) for total petroleum hydrocarbon analysis. HEAL will send the analytical report directly to you.

Please feel free to contact me or Bob Marley at (505) 822-9400 with any questions that you may have on the submitted materials.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Elizabeth Bastien

Elizabeth Bastien
Staff Hydrologist

Daniel B. Stephens & Associates, Inc.
6020 Academy NE, Suite 100 505-822-9400
Albuquerque, NM 87109 FAX 505-822-8877

Operation and Maintenance Activities for September 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
9/06/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
9/13/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
9/21/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured

Operation and Maintenance Activities for September 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
9/27/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
10/4/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
10/11/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	39	41	Not Measured	Not Measured
10/13/2010	Elizabeth Bastien	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges at 11:35 and recorded all measurements ▪ Collected air exhaust sample at 11:50, [Thoreau-20101013] ▪ Shut down system	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	77.4	38	40	5-2C: ND 5-34B: ND SVE-3: ND	5-2C: 56.97 5-34B: 60.81 SVE-3: 60.21

		▪ Measured fluid levels ▪ Placed new Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3. ▪ Checked air filter: filter OK. ▪ Empty 5 gallons from knockout pot ▪ Restarted system, 13:00						

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected, NR = Not Recorded

November 9, 2010

George C. Robinson, P.E.
Cypress Engineering Services, Inc.
7171 Highway 6 North, Ste 102
Houston, TX 77095-2422

Re: Summary of Remediation System Operation and Maintenance for October 2010
Thoreau Compressor Station No. 5, McKinley County, New Mexico

Dear Mr. Robinson:

A summary of maintenance activities for the month of October 2010 are outlined in the attached table.

On November 1, 2010, we collected an exhaust sample from the system and submitted it to Hall Environmental Analysis Laboratory (HEAL) for total petroleum hydrocarbon analysis. HEAL will send the analytical report directly to you.

October was the final month of operation of the Remediation System for 2010. We shut down the system on November 1, as daily low temperatures dropped below freezing. We anticipate that the system can be restarted in May, 2011.

Please feel free to contact me or Bob Marley at (505) 822-9400 with any questions that you may have on the submitted materials.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Elizabeth Bastien

Elizabeth Bastien
Staff Hydrologist

Daniel B. Stephens & Associates, Inc.
6020 Academy NE, Suite 100
Albuquerque, NM 87109
505-822-9400
FAX 505-822-8877

Operation and Maintenance Activities for October 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
10/04/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	38	40	Not Measured	Not Measured
10/11/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	39	41	Not Measured	Not Measured
10/18/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	39	41	Not Measured	Not Measured

Operation and Maintenance Activities for October 2010
Thoreau Compressor Station #5, McKinley County, NM

Date of Visit	Inspector	Task Description	Wells Online	Temp (°F)	Pressure In (in H_2O)	Pressure Out (in H_2O)	Depth to PSH (ft btoc)	Depth to Water (ft btoc)
10/25/2010	Charlie Allen	▪ Verified vacuum on all extraction wells and integrity of connections ▪ All manifold valves full open ▪ Checked gauges and recorded all measurements ▪ Checked air filter: pulled and blown out, air filter OK. ▪ Knockout pot empty	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	NR	39	41	Not Measured	Not Measured
11/1/2010	Elizabeth Bastien	▪ All manifold valves full open ▪ System set to "on" but not running ▪ Empty 30 gallons from knockout pot ▪ Check system is working and then shut down ▪ Measured fluid levels ▪ Removed Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3. ▪ Checked air filter: filter OK. ▪ Restarted system ▪ Verified vacuum on all extraction wells and integrity of connections ▪ Checked gauges at 12:26 and recorded all measurements ▪ Collected air exhaust sample at 12:45, [Thoreau-20101101] ▪ Emptied water from SVE lines ▪ Shutdown system for winter at 12:50pm.	5-2B 5-5B 5-34B 5-36E SVE-3 SVE-4	62.1	38	40	5-2C: ND 5-34B: ND SVE-3: ND	5-2C: 57.08 5-34B: 60.89 SVE-3: 60.57

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected, NR = Not Recorded

SVE Air Samples

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, June 10, 2010

George Robinson
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422

TEL: (281) 797-3420
FAX (281) 859-1881

RE: Cypress Thoreau

Order No.: 1006197

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 6/4/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	Thoreau-20100604
Lab Order:	1006197	**Collection Date:**	6/4/2010 9:45:00 AM
Project:	Cypress Thoreau	**Date Received:**	6/4/2010
Lab ID:	1006197-01	**Matrix:**	AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	119	10.0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C05-C6	9.20	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C06-C7	29.1	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C07-C8	34.4	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C08-C9	14.6	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C09-C10	8.10	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C10-C11	2.60	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C11-C12	1.40	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C12-C14	0.500	0		µg/L	2	6/9/2010 11:35:05 AM
% GRO Hydrocarbons: C14+	0.100	0		µg/L	2	6/9/2010 11:35:05 AM
Surr: BFB	115	76.8-150		%REC	2	6/9/2010 11:35:05 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Cypress Engineering
Project: Cypress Thoreau **Work Order:** 1006197

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R39150**	Analysis Date:	6/8/2010 9:41:59 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R39150**	Analysis Date:	6/8/2010 9:31:19 PM		
Gasoline Range Organics (GRO)	0.4274	mg/L	0.050	0.5	0	85.5	77.8	124			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **CYP** Date Received: **6/4/2010**

Work Order Number **1006197** Received by: TLS

Sample ID labels checked by: TS (Initials)

Checklist completed by: _____ (Signature) 6/4/10 (Date)

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?		*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

_____

_____

_____

_____

Corrective Action _____

_____

_____

Chain-of-Custody Record

Client: Cypress

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: Cypress Thoreau

Project #: E509.0081.00

Project Manager: Bob Marley

Sampler: J. Jayne

On Ice: ☐ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1006197	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
6/4/10	945	Air	Thoreau-20100604	Teflar		-1			X													

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
6-4-10	1530	Jayne		6/4/10	1830	Report HCR Please send copy to George Robinson and Bob Marley
Date:	Time:	Relinquished by:	Received by:	Date	Time	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, July 13, 2010

Bob Marley
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109

TEL: (505) 822-9400
FAX (505) 822-8877

RE: Thoreau O&M

Order No.: 1007074

Dear Bob Marley:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 7/2/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

for Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Jul-10*

CLIENT:	Daniel B. Stephens & Assoc.	**Client Sample ID:**	Thoreau-20100702
Lab Order:	1007074	**Collection Date:**	7/2/2010 10:20:00 AM
Project:	Thoreau O&M	**Date Received:**	7/2/2010
Lab ID:	1007074-01	**Matrix:**	AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: BDH
Gasoline Range Organics (GRO)	185	50.0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: <C5	ND	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C05-C6	14.2	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C06-C7	29.0	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C07-C8	31.5	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C08-C9	13.5	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C09-C10	10.0	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C10-C11	1.30	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C11-C12	0.300	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C12-C14	0.200	0		µg/L	10	7/9/2010 3:40:59 PM
% GRO Hydrocarbons: C14+	ND	0		µg/L	10	7/9/2010 3:40:59 PM
Surr: BFB	106	76.8-150		%REC	10	7/9/2010 3:40:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Thoreau O&M **Work Order:** 1007074

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID: **R39755**		Analysis Date:	7/9/2010 8:15:31 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R39755**		Analysis Date:	7/9/2010 10:16:49 AM		
Gasoline Range Organics (GRO)	0.5266	mg/L	0.050	0.5	0	105	82.3	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **DBS** Date Received: **7/2/2010**

Work Order Number **1007074** Received by: **DAM**

Checklist completed by: _____ 7/2/10 Sample ID labels checked by: _____

Signature Date Initials

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☐	No ☐	Not Present ☑	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?		*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: DBSA

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: Thoreau O+M

Project #: ES09.0081.00 T2

Project Manager: Bob Marley

Sampler: E. Bastien

On Ice: ☐ Yes ☐ No

Sample Temperature:

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
7/2/10	10:20	Air	Thoreau-20100702	Tedlar	—	1007074

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/2/10	13:50	Elizabeth Bastien		7/2/10	13:50
Date:	Time:	Relinquished by:	Received by:	Date	Time

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
		X													

Remarks:
Report HCR
Please send copy to George Robinson and Bob Marley.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, August 16, 2010

George Robinson
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422

TEL: (281) 797-3420
FAX (281) 859-1881

RE: Thoreau Compressor

Order No.: 1008268

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 8/6/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

For Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Aug-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	Thoreau-20100806
Lab Order:	1008268	**Collection Date:**	8/6/2010 10:15:00 AM
Project:	Thoreau Compressor	**Date Received:**	8/6/2010
Lab ID:	1008268-01	**Matrix:**	AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	296	250		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C05-C6	13.1	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C06-C7	22.2	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C07-C8	37.1	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C08-C9	10.4	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C09-C10	15.8	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C10-C11	0.700	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C11-C12	0.200	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C12-C14	0.300	0		µg/L	50	8/11/2010 1:19:55 PM
% GRO Hydrocarbons: C14+	0.200	0		µg/L	50	8/11/2010 1:19:55 PM
Surr: BFB	114	45.8-181		%REC	50	8/11/2010 1:19:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Cypress Engineering
Project: Thoreau Compressor **Work Order:** 1008268

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID: **R40330**		Analysis Date: 8/11/2010 7:30:41 AM			
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5 UG GRO LCS		*LCS*				Batch ID: **R40330**		Analysis Date: 8/11/2010 9:32:05 AM			
Gasoline Range Organics (GRO)	0.5888	mg/L	0.050	0.5	0	118	89.5	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name CYP | Date Received: 8/6/2010

Work Order Number 1008268 | Received by: AT

Checklist completed by: _____ 8/6/10 (Signature / Date) | Sample ID labels checked by: _____ (Initials)

Matrix: | Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

Container/Temp Blank temperature? *<6° C Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Daniel B. Stephens
Cypress Engineering
Mailing Address: 6020 Academy
Albuquerque NM 87109
Phone #: 505-822-9400
email or Fax#: B.Marley@dbstephens.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____
Project Name: Thoreau Compressor
Project #: ES09.0081.00
Project Manager: B. Marley
Sampler: C. Johanesen
On Ice: ☐ Yes ☒ No
Sample Temperature: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1008 2178
8-6-10	1015	Air	Thoreau-20100806	bag-1	—	-1

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/6/10	1350	Chad		8/6/10	1350
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send copy of report to Bob Marley & George Robinson AT 8/6/10

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, September 14, 2010

George Robinson
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422

TEL: (281) 797-3420
FAX: (281) 859-1881

RE: Cypress Thoreau

Order No.: 1009447

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 9/9/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	Thoreau-20100909
Lab Order:	1009447	**Collection Date:**	9/9/2010 11:40:00 AM
Project:	Cypress Thoreau	**Date Received:**	9/9/2010
Lab ID:	1009447-01	**Matrix:**	AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	103	10.0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C05-C6	12.8	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C06-C7	29.3	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C07-C8	35.1	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C08-C9	16.3	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C09-C10	5.00	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C10-C11	0.900	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C11-C12	0.400	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C12-C14	0.200	0		µg/L	2	9/13/2010 2:22:14 PM
% GRO Hydrocarbons: C14+	ND	0		µg/L	2	9/13/2010 2:22:14 PM
Surr: BFB	123	45.6-181		%REC	2	9/13/2010 2:22:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Cypress Engineering
Project: Cypress Thoreau **Work Order:** 1009447

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID: **R40934**		Analysis Date: 9/13/2010 9:51:47 AM			
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R40934**		Analysis Date: 9/13/2010 12:53:58 PM			
Gasoline Range Organics (GRO)	0.4926	mg/L	0.050	0.5	0	98.5	89.5	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name DBS | Date Received: 9/9/2010

Work Order Number 1009447 | Received by: AT

Checklist completed by: [signature] 9/9/10 (Signature / Date) | Sample ID labels checked by: dan (initials)

Matrix: | Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☐	No ☐	Not Present ☑	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?		*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: DBSA [Care of Cypress]

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Cypress Thoreau

Project #: ES09.0081.00 T2

Project Manager: Bob Marley

Sampler: E. Bastien

On Ice: ☒ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
9/9/10	11:40	Air	Thoreau - 20100909	Tevlar	—	1009447			X													

Date: 9/9/10 Time: 15:10 Relinquished by: Elizabeth Bastien Received by: Date 9/10/10 Time 5:10

Date: Time: Relinquished by: Received by: Date Time

Remarks:
Report HCs
Please send copy to George Robinson and Bob Marley.

If nec[illegible] samples submitted to Hall Environmental may be subcontracted to other accredited laboratories [illegible]erves as notice of this possibility. Any sub-contracted data will be clearly notated on the analyti[illegible]t.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, October 18, 2010

Bob Marley
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109

TEL: (505) 822-9400
FAX (505) 822-8877

RE: Cypress Thoreau

Order No.: 1010611

Dear Bob Marley:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 10/13/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Oct-10*

CLIENT:	Daniel B. Stephens & Assoc.	**Client Sample ID:**	Thoreau-20101013
Lab Order:	1010611	**Collection Date:**	10/13/2010 11:50:00 AM
Project:	Cypress Thoreau	**Date Received:**	10/13/2010
Lab ID:	1010611-01	**Matrix:**	AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	160	50.0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C05-C6	6.00	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C06-C7	26.3	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C07-C8	33.1	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C08-C9	15.2	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C09-C10	14.8	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C10-C11	2.70	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C11-C12	1.20	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C12-C14	0.700	0		µg/L	10	10/15/2010 11:46:54 AM
% GRO Hydrocarbons: C14+	ND	0		µg/L	10	10/15/2010 11:46:54 AM
Surr: BFB	107	84.5-118		%REC	10	10/15/2010 11:46:54 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Cypress Thoreau **Work Order:** 1010611

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				**Batch ID: R41581**		**Analysis Date: 10/15/2010 9:51:20 AM**			
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				**Batch ID: R41581**		**Analysis Date: 10/15/2010 2:41:57 PM**			
Gasoline Range Organics (GRO)	0.5642	mg/L	0.050	0.5	0	113	83.7	124			
Sample ID: 2.5UG GRO LCSD		*LCSD*				**Batch ID: R41581**		**Analysis Date: 10/15/2010 3:10:58 PM**			
Gasoline Range Organics (GRO)	0.5370	mg/L	0.050	0.5	0	107	83.7	124	4.94	12	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name DBS | Date Received: 10/13/2010

Work Order Number 1010611 | Received by: MMG

Sample ID labels checked by: _____ Initials

Checklist completed by: Michelle Garcia 10/13/10 (Signature / Date)

Matrix: | Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

Container/Temp Blank temperature? *<6° C Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: DBSA

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Cypress Thoreau ~~OAA~~

Project #: ES09.0081 T2

Project Manager: Bob Marley

Sampler: E. Bastien

On Ice: ☐ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1010611	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
10/13/10	11:50	Air	Thoreau-20101013	Tedlar	—	-1			X													

Date	Time	Relinquished by	Received by	Date	Time
10/13/10	15:40	Elizabeth Bastien	Michelle Garcia	10/13/10	15:40

Remarks: Report HCR Please send to George Robinson and Bob Marley

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, November 09, 2010

George Robinson
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422

TEL: (281) 797-3420
FAX (281) 859-1881

RE: Cypress Thoreau

Order No.: 1011045

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 11/1/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc. Date: *09-Nov-10*

CLIENT: Cypress Engineering
Project: Cypress Thoreau
Lab Order: 1011045

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_A, SAMPLE 1011045-01A: Surrogate "S" flag due to matrix interference.

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Nov-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	Thoreau 20101101
Lab Order:	1011045	**Collection Date:**	11/1/2010 12:45:00 PM
Project:	Cypress Thoreau	**Date Received:**	11/1/2010
Lab ID:	1011045-01	**Matrix:**	AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	89.1	5.00		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C05-C6	7.80	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C06-C7	30.2	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C07-C8	30.8	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C08-C9	17.1	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C09-C10	8.20	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C10-C11	2.90	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C11-C12	1.90	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C12-C14	1.10	0		µg/L	1	11/2/2010 1:00:36 PM
% GRO Hydrocarbons: C14+	ND	0		µg/L	1	11/2/2010 1:00:36 PM
Surr: BFB	134	84.5-118	S	%REC	1	11/2/2010 1:00:36 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Cypress Engineering
Project: Cypress Thoreau **Work Order:** 1011045

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41919**	Analysis Date:		11/2/2010 8:32:21 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R41919**	Analysis Date:		11/2/2010 10:58:32 AM	
Gasoline Range Organics (GRO)	0.4956	mg/L	0.050	0.5	0	99.1	83.7	124			

Qualifiers:

	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name CYP | Date Received: 11/1/2010

Work Order Number 1011045 | Received by: MMG

Checklist completed by: Michelle Garcia (Signature) 11/1/10 (Date) | Sample ID labels checked by: AG (Initials)

Matrix: | Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?		*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Cypress c/o DBSA

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
Cypress Thoreau

Project #:
ES09.0051.00

Project Manager:
Bob Marley

Sampler:

On Ice: ☐ Yes ☒ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1011695	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
11/1/10	12:45	Air	Thoreau 20101101	Tedlar	—	-1			X													

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/1/10	15:30	Elizabeth Barthen	Michelle Garcia	11/1/10	15:30
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:
Report HCR
Please send to George Robinson + B. Marley

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Groundwater Samples

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, June 04, 2010

George Robinson
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422

TEL: (281) 797-3420
FAX (281) 859-1881

RE: Thoreau Station #5

Order No.: 1005614

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 5/21/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

FD

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	5-59
Lab Order:	1005614	**Collection Date:**	5/18/2010 5:10:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	1.3	1.0		µg/L	1	5/27/2010 4:45:14 AM
Aroclor 1221	ND	1.0		µg/L	1	5/27/2010 4:45:14 AM
Aroclor 1232	ND	1.0		µg/L	1	5/27/2010 4:45:14 AM
Aroclor 1242	ND	1.0		µg/L	1	5/27/2010 4:45:14 AM
Aroclor 1248	ND	1.0		µg/L	1	5/27/2010 4:45:14 AM
Aroclor 1254	ND	1.0		µg/L	1	5/27/2010 4:45:14 AM
Aroclor 1260	ND	1.0		µg/L	1	5/27/2010 4:45:14 AM
Surr: Decachlorobiphenyl	70.4	23.9-124		%REC	1	5/27/2010 4:45:14 AM
Surr: Tetrachloro-m-xylene	62.0	28.1-139		%REC	1	5/27/2010 4:45:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/27/2010 5:52:02 PM
Toluene	ND	1.0		µg/L	1	5/27/2010 5:52:02 PM
Ethylbenzene	ND	1.0		µg/L	1	5/27/2010 5:52:02 PM
Xylenes, Total	ND	2.0		µg/L	1	5/27/2010 5:52:02 PM
Surr: 4-Bromofluorobenzene	115	65.9-130		%REC	1	5/27/2010 5:52:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	5-35B
Lab Order:	1005614	**Collection Date:**	5/18/2010 4:45:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	5700	100		µg/L	100	5/27/2010 6:22:21 PM
Toluene	ND	100		µg/L	100	5/27/2010 6:22:21 PM
Ethylbenzene	310	100		µg/L	100	5/27/2010 6:22:21 PM
Xylenes, Total	1900	200		µg/L	100	5/27/2010 6:22:21 PM
Surr: 4-Bromofluorobenzene	108	65.9-130		%REC	100	5/27/2010 6:22:21 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	SVE-3
Lab Order:	1005614	**Collection Date:**	5/18/2010 4:25:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	6300	100		µg/L	100	6/1/2010 12:47:46 PM
Toluene	ND	50		µg/L	50	5/27/2010 11:55:59 PM
Ethylbenzene	430	50		µg/L	50	5/27/2010 11:55:59 PM
Xylenes, Total	3900	100		µg/L	50	5/27/2010 11:55:59 PM
Surr: 4-Bromofluorobenzene	112	65.9-130		%REC	50	5/27/2010 11:55:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	5-61
Lab Order:	1005614	**Collection Date:**	5/18/2010 12:00:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	2.0	1.0		µg/L	1	5/27/2010 5:32:37 AM
Aroclor 1221	ND	1.0		µg/L	1	5/27/2010 5:32:37 AM
Aroclor 1232	ND	1.0		µg/L	1	5/27/2010 5:32:37 AM
Aroclor 1242	ND	1.0		µg/L	1	5/27/2010 5:32:37 AM
Aroclor 1248	ND	1.0		µg/L	1	5/27/2010 5:32:37 AM
Aroclor 1254	ND	1.0		µg/L	1	5/27/2010 5:32:37 AM
Aroclor 1260	ND	1.0		µg/L	1	5/27/2010 5:32:37 AM
Surr: Decachlorobiphenyl	77.2	23.9-124		%REC	1	5/27/2010 5:32:37 AM
Surr: Tetrachloro-m-xylene	74.0	28.1-139		%REC	1	5/27/2010 5:32:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	6300	100		µg/L	100	6/1/2010 1:18:05 PM
Toluene	17	10		µg/L	10	5/28/2010 12:26:21 AM
Ethylbenzene	490	10		µg/L	10	5/28/2010 12:26:21 AM
Xylenes, Total	3500	200		µg/L	100	6/1/2010 1:18:05 PM
Surr: 4-Bromofluorobenzene	121	65.9-130		%REC	10	5/28/2010 12:26:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	5-16B
Lab Order:	1005614	**Collection Date:**	5/18/2010 4:10:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	3800	100		µg/L	100	6/1/2010 1:48:26 PM
Toluene	11	10		µg/L	10	5/28/2010 12:56:37 AM
Ethylbenzene	340	10		µg/L	10	5/28/2010 12:56:37 AM
Xylenes, Total	2200	20		µg/L	10	5/28/2010 12:56:37 AM
Surr: 4-Bromofluorobenzene	120	65.9-130		%REC	10	5/28/2010 12:56:37 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
NC	Non-Chlorinated
PQL	Practical Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	5-18B
Lab Order:	1005614	**Collection Date:**	5/18/2010 3:20:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/1/2010 2:49:05 PM
Toluene	ND	1.0		µg/L	1	6/1/2010 2:49:05 PM
Ethylbenzene	ND	1.0		µg/L	1	6/1/2010 2:49:05 PM
Xylenes, Total	ND	2.0		µg/L	1	6/1/2010 2:49:05 PM
Surr: 4-Bromofluorobenzene	102	65.9-130		%REC	1	6/1/2010 2:49:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	5-20B
Lab Order:	1005614	**Collection Date:**	5/18/2010 4:00:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/1/2010 3:19:24 PM
Toluene	ND	1.0		µg/L	1	6/1/2010 3:19:24 PM
Ethylbenzene	ND	1.0		µg/L	1	6/1/2010 3:19:24 PM
Xylenes, Total	ND	2.0		µg/L	1	6/1/2010 3:19:24 PM
Surr: 4-Bromofluorobenzene	90.9	65.9-130		%REC	1	6/1/2010 3:19:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Jun-10*

CLIENT:	Cypress Engineering	**Client Sample ID:**	5-6C
Lab Order:	1005614	**Collection Date:**	5/18/2010 5:45:00 PM
Project:	Thoreau Station #5	**Date Received:**	5/21/2010
Lab ID:	1005614-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	4.9	1.0		µg/L	1	5/27/2010 6:20:24 AM
Aroclor 1221	ND	1.0		µg/L	1	5/27/2010 6:20:24 AM
Aroclor 1232	ND	1.0		µg/L	1	5/27/2010 6:20:24 AM
Aroclor 1242	ND	1.0		µg/L	1	5/27/2010 6:20:24 AM
Aroclor 1248	ND	1.0		µg/L	1	5/27/2010 6:20:24 AM
Aroclor 1254	ND	1.0		µg/L	1	5/27/2010 6:20:24 AM
Aroclor 1260	ND	1.0		µg/L	1	5/27/2010 6:20:24 AM
Surr: Decachlorobiphenyl	77.6	23.9-124		%REC	1	5/27/2010 6:20:24 AM
Surr: Tetrachloro-m-xylene	68.0	28.1-139		%REC	1	5/27/2010 6:20:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/28/2010 2:27:51 AM
Toluene	ND	1.0		µg/L	1	5/28/2010 2:27:51 AM
Ethylbenzene	ND	1.0		µg/L	1	5/28/2010 2:27:51 AM
Xylenes, Total	ND	2.0		µg/L	1	5/28/2010 2:27:51 AM
Surr: 4-Bromofluorobenzene	99.9	65.9-130		%REC	1	5/28/2010 2:27:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Cypress Engineering
Project: Thoreau Station #5 **Work Order:** 1005614

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1005614-01A MSD		*MSD*				Batch ID:	**R38979**	Analysis Date:		5/27/2010 8:54:13 PM	
Benzene	21.94	µg/L	1.0	20	0	110	85.9	113	4.77	27	
Toluene	21.95	µg/L	1.0	20	0	110	86.4	113	7.79	19	
Ethylbenzene	21.87	µg/L	1.0	20	0	109	83.5	118	6.43	10	
Xylenes, Total	66.35	µg/L	2.0	60	0	111	83.4	122	4.64	13	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R38979**	Analysis Date:		5/27/2010 9:47:31 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R38979**	Analysis Date:		5/27/2010 9:24:43 PM	
Benzene	21.29	µg/L	1.0	20	0	106	87.9	121			
Toluene	21.18	µg/L	1.0	20	0	106	83	124			
Ethylbenzene	20.92	µg/L	1.0	20	0	105	81.7	122			
Xylenes, Total	64.31	µg/L	2.0	60	0	107	85.6	121			
Sample ID: 1005614-01A MS		*MS*				Batch ID:	**R38979**	Analysis Date:		5/27/2010 8:23:53 PM	
Benzene	23.01	µg/L	1.0	20	0	115	85.9	113			S
Toluene	23.73	µg/L	1.0	20	0	119	86.4	113			S
Ethylbenzene	23.32	µg/L	1.0	20	0	117	83.5	118			
Xylenes, Total	69.51	µg/L	2.0	60	0	116	83.4	122			
Method: EPA Method 8082: PCB's											
Sample ID: MB-22384		*MBLK*				Batch ID:	**22384**	Analysis Date:		5/26/2010 11:52:16 AM	
Aroclor 1016	ND	µg/L	1.0								
Aroclor 1221	ND	µg/L	1.0								
Aroclor 1232	ND	µg/L	1.0								
Aroclor 1242	ND	µg/L	1.0								
Aroclor 1248	ND	µg/L	1.0								
Aroclor 1254	ND	µg/L	1.0								
Aroclor 1260	ND	µg/L	1.0								
Sample ID: LCS-22384		*LCS*				Batch ID:	**22384**	Analysis Date:		5/26/2010 12:37:29 PM	
Aroclor 1016	4.354	µg/L	1.0	5	0	87.1	30.5	109			
Aroclor 1260	4.460	µg/L	1.0	5	0	89.2	42.8	119			
Sample ID: LCSD-22384		*LCSD*				Batch ID:	**22384**	Analysis Date:		5/26/2010 1:22:46 PM	
Aroclor 1016	4.462	µg/L	1.0	5	0	89.2	30.5	109	2.45	45.7	
Aroclor 1260	4.614	µg/L	1.0	5	0	92.3	42.8	119	3.39	30	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **CYP** Date Received: **5/21/2010**

Work Order Number **1005814** Received by: AMF

Checklist completed by: _____ 5/21/10 Sample ID labels checked by: _____
Signature Date Initials

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	**2.2°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Cypress Engineering Services

Mailing Address: 7171 Hwy 6, North Ste 102 Houston, TX 77095

Phone #: 281 7973421

email or Fax#: 281 859 1881

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Transwestern Pipeline Company Thoreau Sta 5

Project #: TWP Thoreau

Project Manager: George Robinson

Sampler: Sandy Sharp

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.2

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1005414
5/18/10	1710	W	5-59	(3/40ml)	(HCl)	1
	1645		5-35B	3/40ml	HCl	2
	1625		SVE-3	3/40ml	HCl	3
	1200		5-61	3/40ml	HCl	4
	1610		5-16B	3/40ml	HCl	5
	1520		5-18B	3/40ml	HCl	6
	1600		5-20B	3/40ml	HCl	7
	1200		5-61	1/1L	∅	8 4 DUP
	1745		5-6C	3/40ml	HCl	9 8 5/21/10
	1745		5-6C	1/1L	∅	10 8

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/21/10	10:05			5/21/10	10:05
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	~~8081 Pesticides~~ / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
X								X							
X															
X															
X															
X															
X															
X															
								X							
X															
								X							

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical