

GW - 109

**MONITORING
REPORT
Dehy Area**

03/21/2008



Cypress Engineering

GW109

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RECEIVED

March 21, 2008

2008 APR 15 PM 4 01

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 - WT-1 Station Dehy Area
Lea County, New Mexico

Dear Glenn,

The enclosed Report of Groundwater Remediation Activities is submitted for your review and files.

If you have any questions or comments regarding this report, please contact me at (281) 797-3421 or Larry Campbell at (505) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment:	Sam Duletsky	Transwestern Pipeline Company
	Larry Campbell	Transwestern Pipeline Company
	Larry Johnson	NMOCD Hobbs District Office

RECEIVED
2008 APR 15 PM 4 01

Report of Groundwater Remediation Activities

**Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area
Lea County, New Mexico**

**Submitted to:
New Mexico Oil Conservation Division**

March 12, 2008

**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 77095-2422**

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1. Groundwater Monitoring Activities

1.1 Semi-Annual Groundwater Sampling Events

Two semi-annual groundwater-sampling events have been completed since the last report of remediation activities. These events were completed on June 21, 2007 and December 07, 2007.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase-separated hydrocarbons (PSH) were present, was determined for each monitoring well. The measured depth to water and the corresponding water table elevation for each monitoring well is presented in Table 1. Similar measurements obtained from the SVE wells are presented in Table 2.

Groundwater samples were collected from selected monitoring wells at the site. Samples were not collected from wells with accumulated PSH in the well casing. Groundwater samples were delivered to a laboratory for analysis for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B. A summary of the laboratory results and field-measured parameters is presented in Table 3. A copy of the laboratory results for each of the sampling events is included as an appendix to this report.

1.2 Results/Conclusions from Groundwater Sampling Events

1.2.1 Occurrence and Direction of Groundwater Flow

A water table elevation map based on measurements obtained in the course of the December 07, 2007 sampling event is included as Figure 3. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site.

1.2.2 Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH is presently defined by the occurrence of PSH at the water table in monitor well MW-10 and wells SVE-11, SVE-12, and SVE-14. Based on the information currently available, the volume and lateral extent of PSH in the area appears to be relatively limited. A figure indicating the estimated area with PSH present at the water table is included as Figure 4.

1.2.3 Condition of Affected Groundwater

The condition of affected groundwater has not changed significantly from previous sampling events as evidenced by the information presented in Table 3 and Figure 5. The three monitor wells downgradient of the release area continue to yield groundwater samples that are non-detect for BTEX constituents. Monitor well MW-9, located about 200 feet upgradient of the release area, also yielded samples that are non-detect for BTEX constituents.

2. Status of Remediation Activities

2.1 Remediation Activities Completed through December 2007

The following remediation activities were completed since the last report of remediation activities:

- 1) Two groundwater-sampling events were completed.
- 2) Operation of the SVE system is limited to the warmer weather months. Condensed water collecting in the SVE conveyance lines during cold weather made the system ineffective, therefore, the system was shut-down during the winter months. The SVE system is scheduled to restart in April 2008.

2.2 Remediation Activities Planned for January 2008 through December 2008

Semi-annual groundwater sampling will continue and the SVE system is scheduled to operate from April 2008 through October 2008.

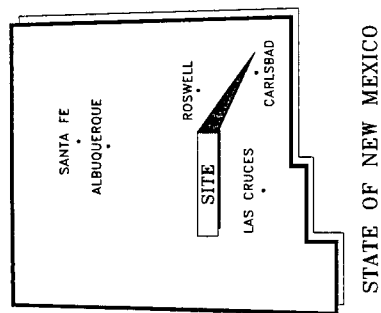
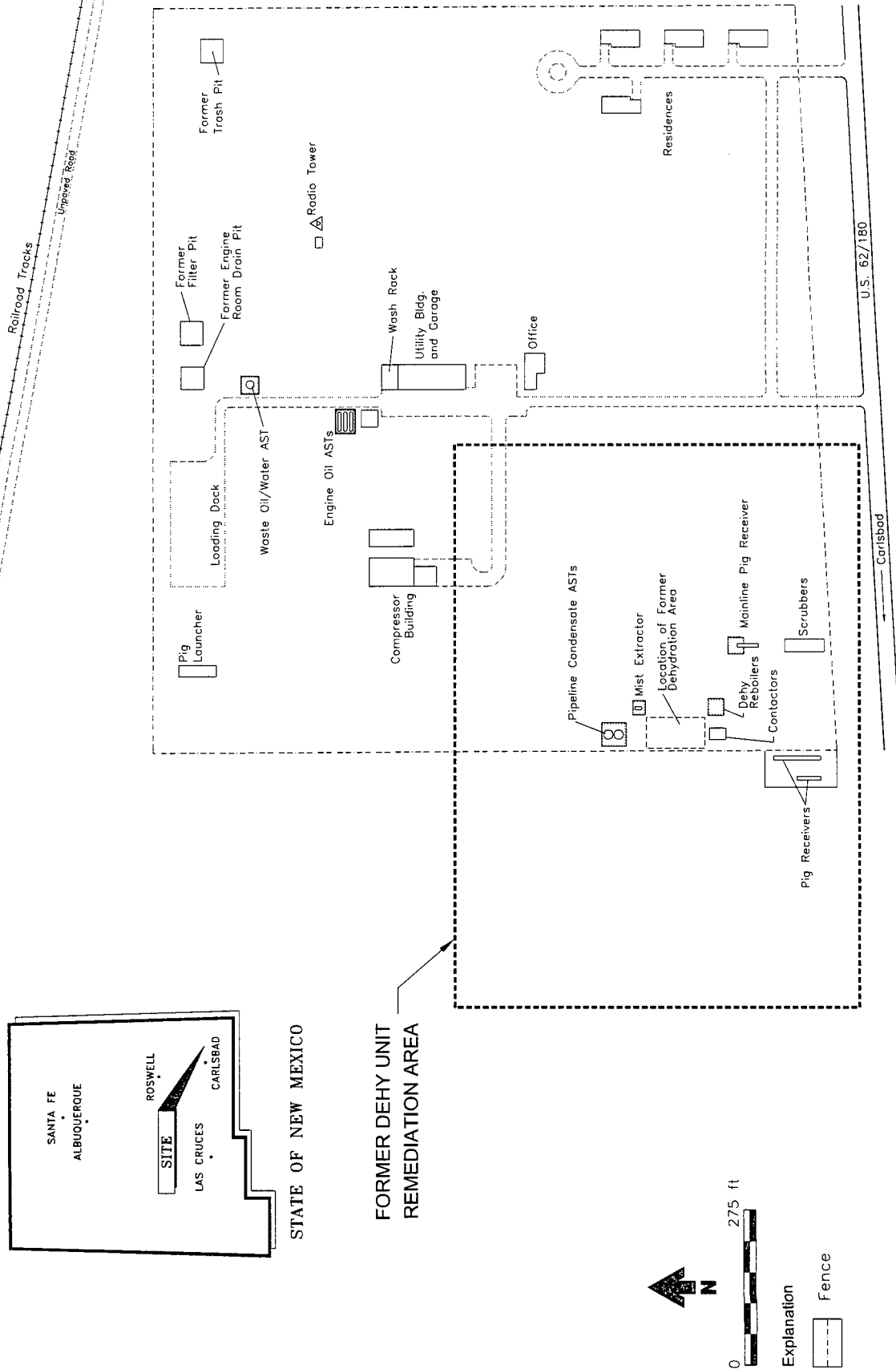
3. Proposed Modifications

3.1 Modifications to the Routine Groundwater Sampling Plan

Sampling location, frequency and the sampling analysis plan will continue on a semi-annual basis. A summary of the sample analysis plan is presented in Table 6.

3.2 Reporting Frequency

Annual reporting will continue with the next scheduled report being submitted to the OCD by February 28, 2009.



FORMER DEHY UNIT
REMEDATION AREA

Facility Site Map

WT-1 COMPRESSOR STATION
TRANSWESTERN PIPELINE COMPANY

CYPRESS ENGINEERING SERVICES, INC.

FIGURE 1

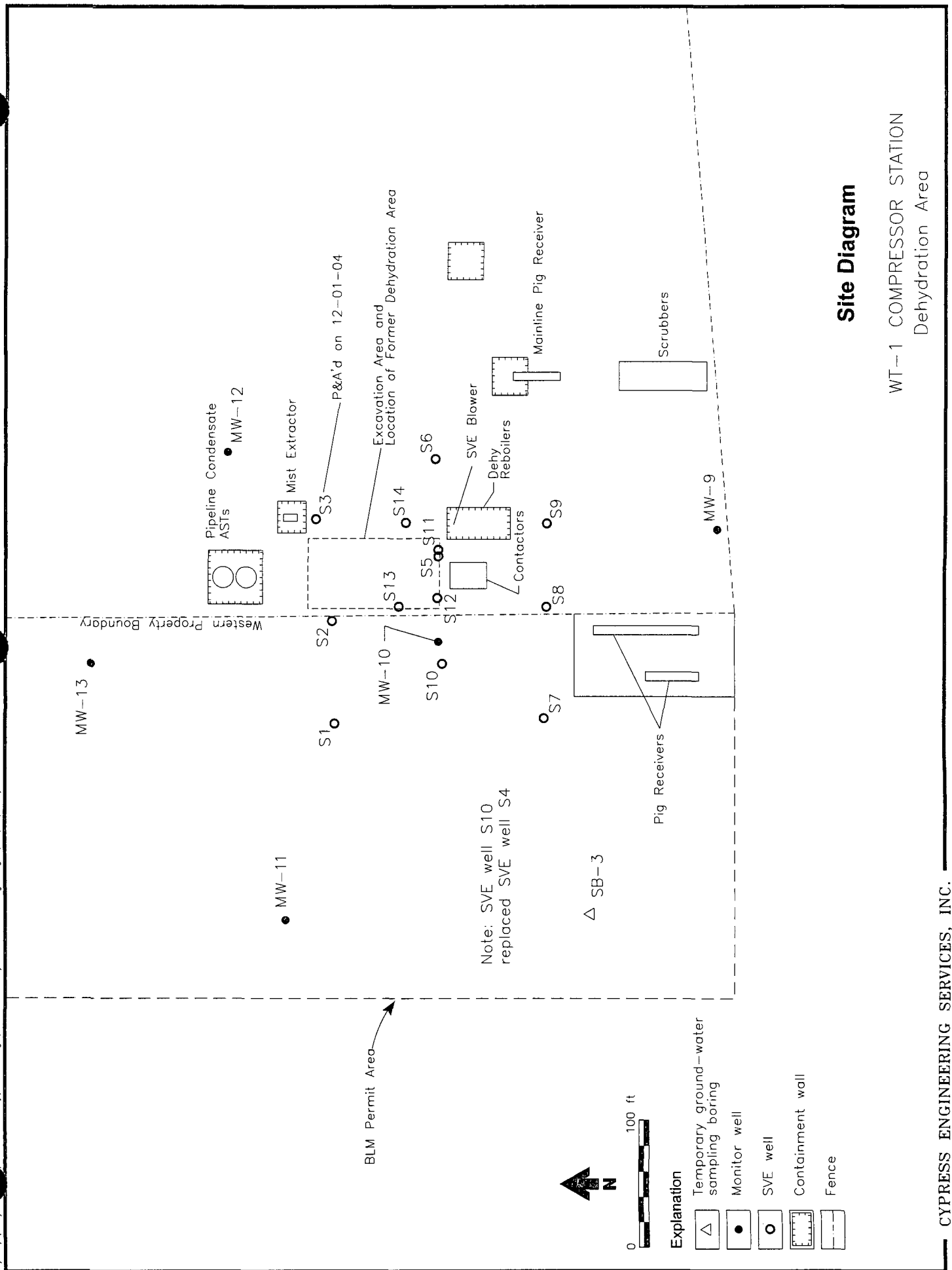


Figure 2

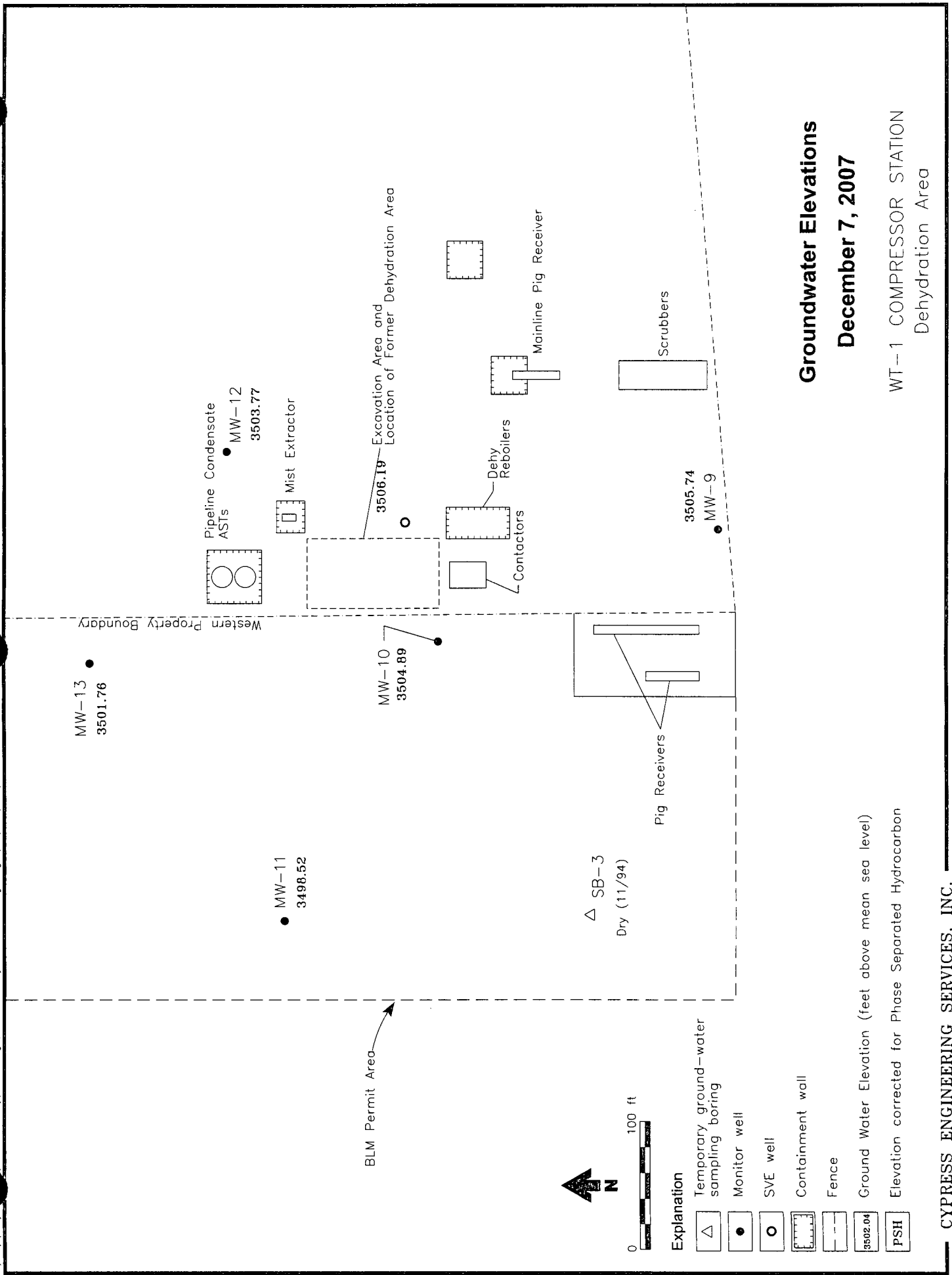
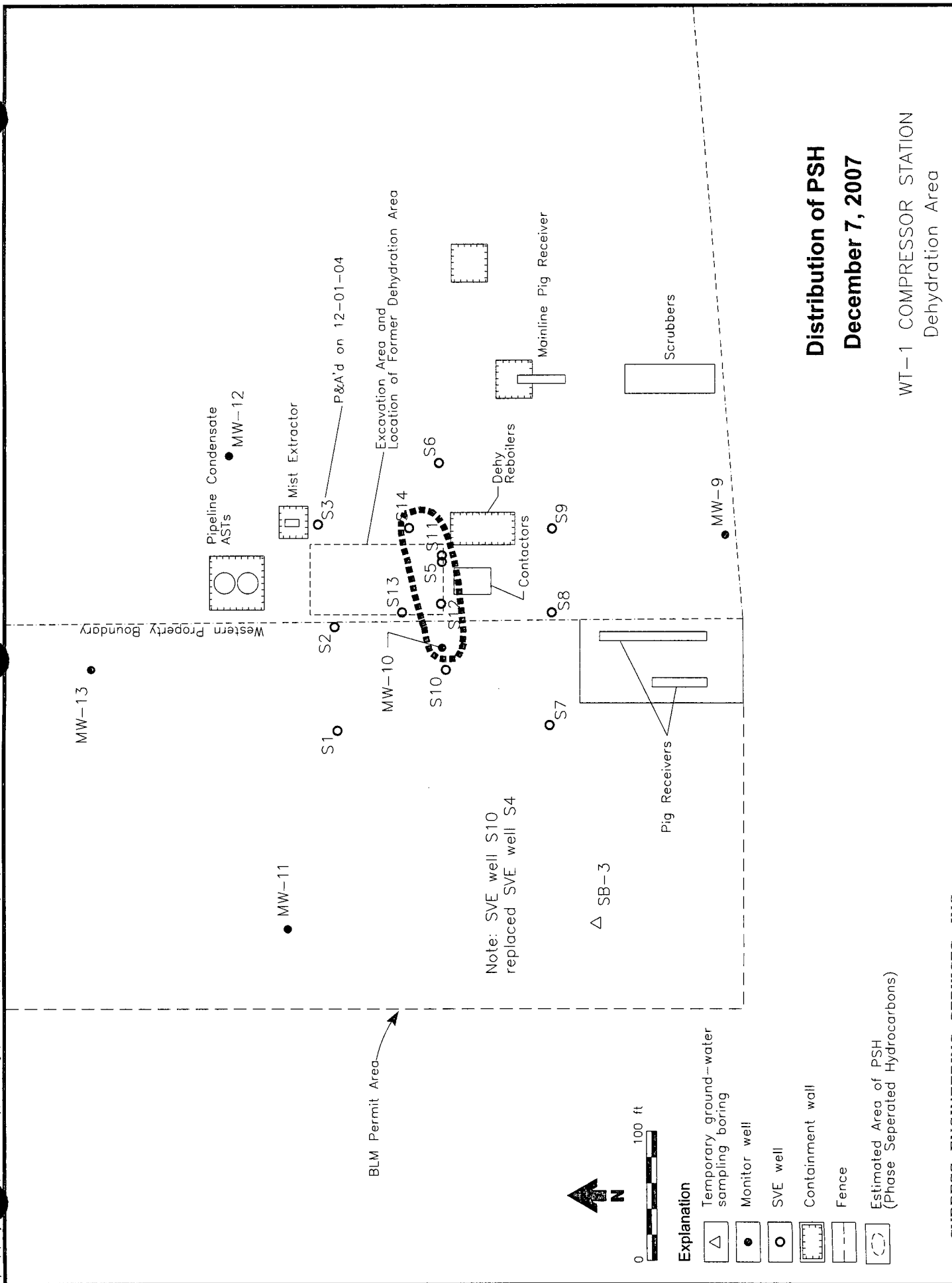


Figure 3

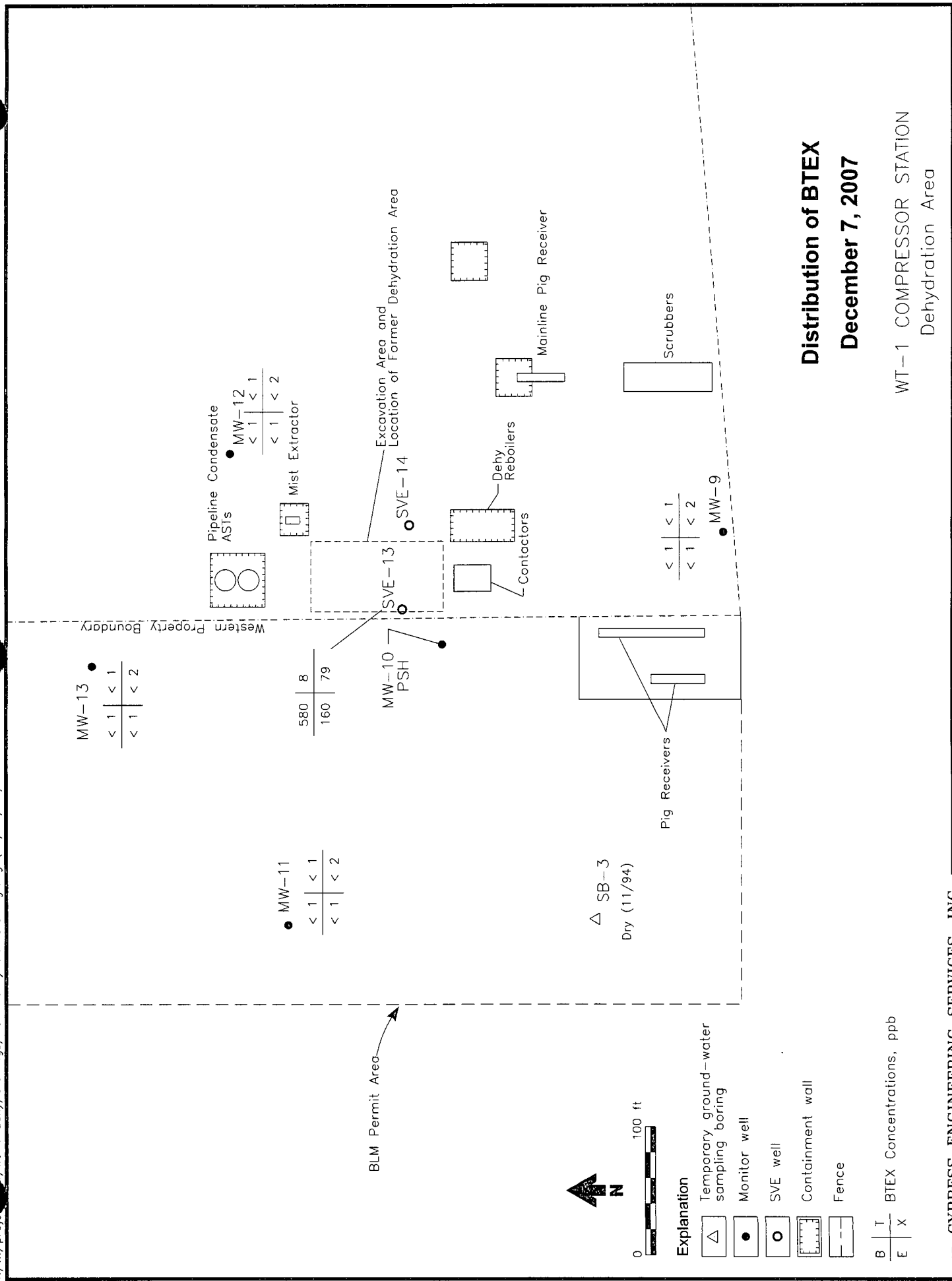


Distribution of PSH

December 7, 2007

WT-1 COMPRESSOR STATION
Dehydration Area

Figure 4



Distribution of BTEX

December 7, 2007

WT-1 COMPRESSOR STATION
 Dehydration Area

Figure 5

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-9	11/21/94	3557.31 (b)	(a)	55.14	(a)	3502.17
	11/21/95		(a)	55.67	(a)	3501.64
	02/22/96		(a)	55.27	(a)	3502.04
	05/14/96		(a)	55.18	(a)	3502.13
	08/12/96		(a)	55.53	(a)	3501.78
	11/12/96		(a)	55.25	(a)	3502.06
	02/05/97		(a)	55.20	(a)	3502.11
	08/05/97		(a)	55.25	(a)	3502.06
	12/29/97		(a)	55.19	(a)	3502.12
	02/23/98*		(a)	54.71	(a)	3502.60
	08/05/98*		(a)	54.72	(a)	3502.59
	08/27/98		(a)	54.64	(a)	3502.67
	02/11/99*		(a)	55.63	(a)	3501.68
	08/11/99*		(a)	55.15	(a)	3502.16
	02/13/00*		(a)	54.66	(a)	3502.65
	08/21/00*		(a)	54.82	(a)	3502.49
	02/17/01*		(a)	54.95	(a)	3502.36
	08/15/01		(a)	54.42	(a)	3502.89
	02/27/02*		(a)	54.40	(a)	3502.91
	07/31/02*		(a)	54.32	(a)	3502.99
	02/13/03*		(a)	54.47	(a)	3502.84
	08/04/03*		(a)	54.32	(a)	3502.99
	05/24/04*		(a)	54.52	(a)	3502.79
	11/09/04*		(a)	54.53	(a)	3502.78
	04/11/05*		(a)	53.80	(a)	3503.51
	12/01/05*		(a)	53.03	(a)	3504.28
	05/10/06*		(a)	52.64	(a)	3504.67
	12/14/06*		(a)	52.08	(a)	3505.23
	06/20/07*		(a)	51.84	(a)	3505.47
	12/07/07*		(a)	51.57	(a)	3505.74

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-10	11/18/94	3553.45 (b)	(a)	52.63	(a)	3500.82
	11/21/95		52.31	54.21	1.90	3500.76
	02/22/96		52.08	53.75	1.67	3501.04
	05/14/96		51.93	53.58	1.65	3501.19
	08/12/96		52.25	53.40	1.15	3500.97
	11/12/96		52.48	52.82	0.34	3500.90
	02/05/97		52.57	52.98	0.41	3500.80
	08/05/97		52.38	53.08	0.70	3500.93
	08/07/97		52.39	52.72	0.33	3500.99
	08/29/97		52.15	52.57	0.42	3501.22
	12/29/97		53.51	53.62	0.11	3499.92
	02/23/98*		(a)	53.42	(a)	3500.03
	08/27/98		(a)	51.65	(a)	3501.80
	02/11/99*		(a)	52.50	(a)	3500.95
	06/15/99	3554.31 (c)	54.05	54.24	0.19	3499.36
	07/13/99		54.15	54.25	0.10	3499.28
	07/22/99		53.58	54.00	0.42	3499.79
	08/11/99*		53.57	53.62	0.05	3500.73
	09/02/99		(a)	53.54	(a)	3499.91
	09/14/99		(a)	53.60	(a)	3499.85
	09/28/99		(a)	53.85	(a)	3499.60
	10/07/99		(a)	53.71	(a)	3499.74
	10/26/99		(a)	53.63	(a)	3499.82
	11/11/99		(a)	53.28	(a)	3500.17
	11/30/99		(a)	52.76	(a)	3500.69
	12/14/99		(a)	53.08	(a)	3500.37
	12/30/99		(a)	52.65	(a)	3500.80
	01/13/00		(a)	53.10	(a)	3500.35
	02/03/00		(a)	53.39	(a)	3500.06
	02/13/00*		(a)	52.81	(a)	3500.64
	03/06/00		(a)	53.18	(a)	3500.27
	04/20/00		(a)	55.19	(a)	3498.26
	05/11/00		(a)	54.14	(a)	3499.31
	05/25/00		53.66	53.98	0.32	3500.59
	06/08/00		(a)	58.24	(a)	3495.21
	06/22/00		(a)	54.35	(a)	3499.10
	07/13/00		(a)	53.82	(a)	3499.63
	07/27/00		(a)	53.48	(a)	3499.97
	08/03/00		(a)	53.10	(a)	3500.35
	08/21/00*		52.95	53.15	0.20	3501.32
	09/19/00		52.98	53.30	0.32	3501.27
	09/28/00		(a)	52.94	(a)	3500.51
	11/03/00		52.68	52.97	0.29	3501.57
	11/16/00		(a)	52.69	(a)	3500.76
	12/06/00		52.80	53.11	0.31	3501.45

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
	01/25/01		52.51	52.96	0.45	3501.71
	02/17/01*		52.76	53.11	0.35	3501.48
	02/23/01		52.30	52.76	0.46	3501.92
	03/30/01		52.48	52.49	0.01	3501.83
	08/15/01		(a)	52.37	(a)	3501.08
	02/27/02*		52.22	52.32	0.10	3502.07
	07/31/02*		52.03	52.37	0.34	3502.21
	02/13/03*		52.09	52.41	0.32	3502.16
	08/04/03*		51.87	52.32	0.45	3502.35
	05/24/04*		51.87	52.52	0.65	3502.31
	11/09/04*		(a)	52.02	sheen	3501.43
	04/11/05*		51.66	52.22	0.56	3502.54
	12/01/05*		50.97	51.58	0.61	3503.22
	05/10/06*		50.33	51.04	0.71	3503.84
	12/14/06*		49.87	50.77	0.90	3504.26
	06/20/07*		49.47	50.54	1.07	3504.63
	12/07/07*		49.19	50.36	1.17	3504.89

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-11	11/21/94	3547.84 (b)	(a)	DRY	(a)	DRY
	11/21/95		(a)	58.10	(a)	3489.74
	02/22/96		(a)	56.70	(a)	3491.14
	05/14/96		(a)	57.33	(a)	3490.51
	08/12/96		(a)	56.96	(a)	3490.88
	11/12/96		(a)	56.66	(a)	3491.18
	02/05/97		(a)	57.09	(a)	3490.75
	08/05/97		(a)	54.93	(a)	3492.91
	12/29/97		(a)	54.53	(a)	3493.31
	02/23/98*		(a)	53.97	(a)	3493.87
	08/05/98*		(a)	54.37	(a)	3493.47
	08/27/98		(a)	57.48	(a)	3490.36
	02/11/99*		(a)	53.11	(a)	3494.73
	08/11/99*		(a)	52.67	(a)	3495.17
	02/13/00*		(a)	52.20	(a)	3495.64
	08/21/00*		(a)	52.34	(a)	3495.50
	02/17/01*		(a)	52.38	(a)	3495.46
	08/15/01		(a)	52.06	(a)	3495.78
	02/27/02*		(a)	52.01	(a)	3495.83
	07/31/02*		(a)	51.79	(a)	3496.05
	02/13/03*		(a)	51.65	(a)	3496.19
	08/04/03*		(a)	51.54	(a)	3496.30
	05/24/04*		(a)	51.39	(a)	3496.45
	11/09/04*		(a)	51.50	(a)	3496.34
	04/11/05*		(a)	51.18	(a)	3496.66
	12/01/05*		(a)	51.10	(a)	3496.74
	05/10/06*		(a)	50.75	(a)	3497.09
	12/14/06*		(a)	50.31	(a)	3497.53
	06/20/07*		(a)	50.03	(a)	3497.81
	12/07/07*		(a)	49.32	(a)	3498.52

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-12	11/17/94	3551.19 (b)	(a)	49.31	(a)	3501.88
	11/21/95		(a)	50.49	(a)	3500.70
	02/22/96		(a)	50.13	(a)	3501.06
	05/14/96		(a)	49.96	(a)	3501.23
	08/12/96		(a)	50.31	(a)	3500.88
	11/12/96		(a)	50.41	(a)	3500.78
	02/05/97		(a)	50.53	(a)	3500.66
	08/05/97		(a)	50.39	(a)	3500.80
	12/29/97		(a)	50.35	(a)	3500.84
	02/23/98*		(a)	50.26	(a)	3500.93
	08/05/98*		(a)	50.22	(a)	3500.97
	08/27/98		(a)	49.94	(a)	3501.25
	02/11/99*		(a)	49.87	(a)	3501.32
	08/11/99*		(a)	50.29	(a)	3500.90
	02/13/00*		(a)	49.62	(a)	3501.57
	08/21/00*		(a)	50.28	(a)	3500.91
	02/17/01*		(a)	50.06	(a)	3501.13
	08/15/01		(a)	49.61	(a)	3501.58
	02/27/02*		(a)	49.45	(a)	3501.74
	07/31/02*		(a)	49.43	(a)	3501.76
	02/13/03*		(a)	49.41	(a)	3501.78
	08/04/03*		(a)	49.36	(a)	3501.83
	05/24/04*		(a)	49.45	(a)	3501.74
	11/09/04*		(a)	49.57	(a)	3501.62
	04/11/05*		(a)	49.37	(a)	3501.82
	12/01/05*		(a)	49.05	(a)	3502.14
	05/10/06*		(a)	48.51	(a)	3502.68
	12/14/06*		(a)	48.11	(a)	3503.08
	06/20/07*		(a)	47.85	(a)	3503.34
	12/07/07*		(a)	47.42	(a)	3503.77

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-13	12/01/94	3547.78 (b)	(a)	49.70	(a)	3498.08
	11/21/95		(a)	49.55	(a)	3498.23
	02/22/96		(a)	49.27	(a)	3498.51
	05/14/96		(a)	49.15	(a)	3498.63
	08/12/96		(a)	49.40	(a)	3498.38
	11/12/96		(a)	49.42	(a)	3498.36
	02/05/97		(a)	49.40	(a)	3498.38
	08/05/97		(a)	49.37	(a)	3498.41
	12/29/97		(a)	49.50	(a)	3498.28
	02/23/98*		(a)	49.35	(a)	3498.43
	08/05/98*		(a)	49.41	(a)	3498.37
	08/27/98		(a)	49.20	(a)	3498.58
	02/11/99*		(a)	49.12	(a)	3498.66
	08/11/99*		(a)	49.43	(a)	3498.35
	02/13/00*		(a)	49.05	(a)	3498.73
	08/21/00*		(a)	49.40	(a)	3498.38
	02/17/01*		(a)	49.22	(a)	3498.56
	08/15/01		(a)	48.98	(a)	3498.80
	02/27/02*		(a)	48.85	(a)	3498.93
	07/31/02*		(a)	48.62	(a)	3499.16
	02/13/03*		(a)	48.52	(a)	3499.26
	08/04/03*		(a)	48.40	(a)	3499.38
	05/24/04*		(a)	48.35	(a)	3499.43
	11/09/04*		(a)	48.55	(a)	3499.23
	04/11/05*		(a)	48.13	(a)	3499.65
	12/01/05*		(a)	47.75	(a)	3500.03
	05/10/06*		(a)	46.88	(a)	3500.90
	12/14/06*		(a)	46.02	(a)	3501.76
	06/20/07*		(a)	45.43	(a)	3502.35
	12/07/07*		(a)	45.07	(a)	3502.71

NOTES:

PSH - Phase separated hydrocarbon

Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of

(a) Not applicable since no measurable thickness of hydrocarbon is present

(b) Survey by John West Engineering, Hobbs, NM dated 11/94

(c) Survey by Cypress Engineering, Houston, TX dated 08/11/99

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-1	05/14/96	3551.22 (e)	(a)	51.01	(a)	3500.21
	08/06/97		(a)	49.09	(a)	3502.13
	02/11/99*		(a)	51.52	(a)	3499.70
	08/11/99*		(a)	52.17	(a)	3499.05
	02/13/00*		(a)	51.32	(a)	3499.90
	08/21/00*		(a)	51.85	(a)	3499.37
	02/17/01*		(a)	51.55	(a)	3499.67
	08/15/01		(a)	51.17	(a)	3500.05
	02/27/02*		(a)	50.90	(a)	3500.32
	07/31/02*		(a)	50.79	(a)	3500.43
	02/13/03*		(a)	50.71	(a)	3500.51
	08/04/03*		(a)	50.63	(a)	3500.59
	05/24/04*		(a)	50.80	(a)	3500.42
	11/09/04*		(a)	50.73	(a)	3500.49
	04/11/05*		(a)	50.72	(a)	3500.50
	12/01/05*		(a)	50.44	(a)	3500.78
	05/10/06*		(a)	50.05	(a)	3501.17
	12/14/06*		(a)	48.37	(a)	3502.85
	06/20/07*		(a)	49.09	(a)	3502.13
	12/07/07*		(a)	48.57	(a)	3502.65
SVE-2	05/14/96	3551.96 (e)	50.63	51.38	0.75	3501.18
	08/06/97		50.95	52.15	1.20	3500.77
	08/07/97		50.93	51.64	0.71	3500.89
	08/29/97		50.75	51.16	0.41	3501.13
	12/29/97		51.02	51.76	0.74	3500.79
	06/26/98		(a)	50.87	(a)	3501.09
	07/13/98		(a)	50.87	(a)	3501.09
	02/11/99*		(a)	50.15	(a)	3501.81
	08/11/99*		(a)	51.26	(a)	3500.70
	02/13/00*		(a)	50.57	(a)	3501.39
	08/21/00*		(a)	50.68	(a)	3501.28
	02/17/01*		(a)	50.55	(a)	3501.41
	08/15/01		(a)	50.07	(a)	3501.89
	07/31/02*		(a)	49.81	(a)	3502.15
	02/13/03*		(a)	49.89	(a)	3502.07
	08/04/03*		(a)	49.68	(a)	3502.28
	05/24/04*		(a)	49.70	(a)	3502.26
	11/09/04*		(a)	49.85	(a)	3502.11
	04/11/05*		(a)	50.31	(a)	3501.65
	12/01/05*		(a)	49.62	(a)	3502.34
	05/10/06*		(a)	48.15	(a)	3503.81
	12/14/06*		(a)	47.82	(a)	3504.14
	06/20/07*		(a)	47.48	(a)	3504.48
	12/07/07*		(a)	47.28	(a)	3504.68

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-3	05/14/96	3552.75 (e)	(a)	50.95	(a)	3501.80
	08/06/97		(a)	47.70	(a)	3505.05
	12/29/97		(a)	51.44	(a)	3501.31
	02/11/99*		(a)	46.45	(a)	3506.30
	08/11/99*		(a)	51.03	(a)	3501.72
	02/13/00*		(a)	51.17	(a)	3501.58
	02/17/01*		(a)	51.08	(a)	3501.67
	08/15/01		(a)	50.87	(a)	3501.88
	02/27/02*		(a)	50.61	(a)	3502.14
	07/31/02*		(a)	50.57	(a)	3502.18
	02/13/03*		(a)	50.56	(a)	3502.19
	08/04/03*		(a)	50.46	(a)	3502.29
	05/24/04*		--	TD@41.00	--	--
	11/09/04*		--	TD@41.00	--	--
	12/01/04	(f)	--	--	--	--

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-4	05/14/96	3553.03 (d)	51.91	53.67	1.76	3500.77
	08/06/97		50.56	52.24	1.68	3502.13
	08/07/97		52.84	53.39	0.55	3500.08
	08/29/97		50.50	51.74	1.24	3502.28
	12/29/97		52.02	53.04	1.02	3500.81
	06/26/98		50.58	52.30	1.72	3502.11
	07/13/98		50.52	52.30	1.78	3502.15
	07/24/98		50.38	51.80	1.42	3502.37
	09/23/98		50.11	51.31	1.20	3502.68
	01/07/99		50.70	51.36	0.66	3502.20
	01/27/99		50.65	51.18	0.53	3502.27
SVE-5	05/14/96	3554.39 (e)	51.34	--	--	(a)
	08/06/97		45.69	49.30	3.61	3507.98
	08/07/97		50.22	51.08	0.86	3504.00
	08/29/97		45.00	48.59	3.59	3508.67
	12/29/97		51.83	--	--	(a)
	08/26/98		44.65	47.10	2.45	3509.25
	01/17/99		46.20	46.60	0.40	3508.11
	02/11/99*		44.87	45.10	0.23	3509.47
	06/15/99		<52.05	<52.05	na	na
	07/15/99		<52.05	<52.05	na	na
	08/13/99		<52.05	<52.05	na	na
	09/14/99		<52.05	<52.05	na	na
	10/07/99		<52.05	<52.05	na	na
	11/16/99		<52.05	<52.05	na	na
	12/16/99		<52.05	<52.05	na	na
	01/25/00		(a)	52.08	(a)	3502.31
	02/03/00		(a)	51.23	(a)	3503.16
	02/13/00*		(a)	51.08	(a)	3503.31
	02/17/01*		(a)	48.08	(a)	3506.31
	08/15/01		(a)	50.68	(a)	3503.71
	02/27/02*		(a)	50.53	(a)	3503.86
	07/31/02*		(a)	51.96	(a)	(a)
	02/13/03*		51.85	52.06	0.21	3502.50
	08/04/03*		52.90	53.56	0.66	3501.36
	05/24/04*		51.90	52.13	0.23	3502.44
	11/09/04*		51.99	to TD @ 52.14	--	--
	04/11/05*		51.40	51.99	0.59	3502.87
	12/01/05*		50.81	51.57	0.76	3503.43
	05/10/06*		50.24	51.09	0.85	3503.98
	12/14/06*		47.85	48.12	0.27	3506.49
	06/20/07*		(a)	46.76	(a)	3507.63
	12/07/07*		(a)	47.37	(a)	3507.02

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-6	05/14/96	3553.74 (e)	(a)	54.30	(a)	3499.44
	08/06/97		(a)	49.75	(a)	3503.99
	02/11/99*		(a)	52.05	(a)	3501.69
	08/11/99*		(a)	52.59	(a)	3501.15
	02/13/00*		(a)	51.95	(a)	3501.79
	02/17/01*		(a)	51.88	(a)	3501.86
	08/15/01		(a)	51.36	(a)	3502.38
	02/27/02*		(a)	51.22	(a)	3502.52
	07/31/02*		(a)	51.03	(a)	3502.71
	02/13/03*		(a)	51.16	(a)	3502.58
	08/04/03*		(a)	50.88	(a)	3502.86
	05/24/04*		(a)	51.18	(a)	3502.56
	11/09/04*		(a)	50.99	(a)	3502.75
	04/11/05*		(a)	51.82	(a)	3501.92
	12/01/05*		(a)	49.94	(a)	3503.80
	05/10/06*		(a)	49.45	(a)	3504.29
	12/14/06*		(a)	48.88	(a)	3504.86
	06/20/07*		(a)	48.50	(a)	3505.24
	12/07/07*		(a)	48.18	(a)	3505.56
SVE-7	05/14/96	3553.81 (e)	(a)	53.89	(a)	3499.92
	08/06/97		(a)	51.40	(a)	3502.41
	12/29/97		(a)	54.14	(a)	3499.67
	02/11/99*		(a)	53.65	(a)	3500.16
	08/11/99*		(a)	54.18	(a)	3499.63
	02/13/00*		(a)	53.37	(a)	3500.44
	08/21/00*		(a)	53.98	(a)	3499.83
	02/17/01*		(a)	53.64	(a)	3500.17
	08/15/01		(a)	53.28	(a)	3500.53
	02/27/02*		(a)	52.93	(a)	3500.88
	07/31/02*		(a)	52.87	(a)	3500.94
	02/13/03*		(a)	52.71	(a)	3501.10
	08/04/03*		(a)	52.61	(a)	3501.20
	05/24/04*		(a)	52.63	(a)	3501.18
	11/09/04*		(a)	52.70	(a)	3501.11
	04/11/05*		(a)	52.38	(a)	3501.43
	12/01/05*		(a)	51.85	(a)	3501.96
	05/10/06*		(a)	51.23	(a)	3502.58
	12/14/06*		(a)	50.46	(a)	3503.35
	06/20/07*		(a)	50.04	(a)	3503.77
	12/07/07*		(a)	49.53	(a)	3504.28

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-8	05/14/96	3555.25 (e)	(a)	53.55	(a)	3501.70
	08/06/97		(a)	51.72	(a)	3503.53
	12/29/97		(a)	54.07	(a)	3501.18
	02/11/99*		(a)	53.06	(a)	3502.19
	08/11/99*		(a)	54.02	(a)	3501.23
	02/13/00*		(a)	53.33	(a)	3501.92
	08/21/00*		(a)	53.57	(a)	3501.68
	02/17/01*		(a)	53.34	(a)	3501.91
	08/15/01		(a)	53.08	(a)	3502.17
	02/27/02*		(a)	52.94	(a)	3502.31
	07/31/02*		(a)	52.83	(a)	3502.42
	02/13/03*		(a)	52.86	(a)	3502.39
	08/04/03*		(a)	52.73	(a)	3502.52
	05/24/04*		(a)	52.74	(a)	3502.51
	11/09/04*		(a)	52.87	(a)	3502.38
	04/11/05*		(a)	52.39	(a)	3502.86
	12/01/05*		(a)	51.60	(a)	3503.65
	05/10/06*		(a)	51.07	(a)	3504.18
	12/14/06*		(a)	50.67	(a)	3504.58
	06/20/07*		(a)	50.18	(a)	3505.07
	12/07/07*		(a)	50.03	(a)	3505.22
SVE-9	05/14/96	3555.36 (e)	(a)	54.13	(a)	3501.23
	08/06/97		(a)	50.06	(a)	3505.30
	02/11/99*		(a)	50.97	(a)	3504.39
	08/11/99*		(a)	54.39	(a)	3500.97
	02/13/00*		(a)	53.65	(a)	3501.71
	08/21/00*		(a)	54.22	(a)	3501.14
	02/17/01*		(a)	53.57	(a)	3501.79
	08/15/01		(a)	53.14	(a)	3502.22
	02/27/02*		(a)	53.01	(a)	3502.35
	07/31/02*		(a)	52.78	(a)	3502.58
	02/13/03*		(a)	52.88	(a)	3502.48
	08/04/03*		(a)	52.63	(a)	3502.73
	05/24/04*		(a)	52.81	(a)	3502.55
	11/09/04*		(a)	52.78	(a)	3502.58
	04/11/05*		(a)	53.53	(a)	3501.83
	12/01/05*		(a)	51.81	(a)	3503.55
	05/10/06*		(a)	51.10	(a)	3504.26
	12/14/06*		(a)	50.61	(a)	3504.75
	06/20/07*		(a)	50.31	(a)	3505.05
	12/07/07*		(a)	49.91	(a)	3505.45

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-10	06/04/99	3554.40 (e)	52.86	52.88	0.02	3501.54
	06/29/99		53.25	53.32	0.07	3501.14
	07/08/99		51.63	51.70	0.07	3502.76
	07/27/99		51.23	51.41	0.18	3503.13
	08/11/99*		53.12	53.32	0.20	3501.24
	08/26/99		51.63	51.77	0.14	3502.74
	09/28/99		56.65	56.79	0.14	3497.72
	10/07/99		54.98	55.23	0.25	3499.37
	10/26/99		54.68	54.77	0.09	3499.70
	11/11/99		55.79	55.85	0.06	3498.60
	11/30/99		55.03	55.07	0.04	3499.36
	12/14/99		54.52	54.53	0.01	3499.88
	12/30/99		53.91	53.94	0.03	3500.48
	01/13/00		53.56	53.59	0.03	3500.83
	01/25/00		53.50	53.52	0.02	3500.90
	02/03/00		53.61	53.63	0.02	3500.79
	02/13/00*		53.53	53.58	0.05	3500.86
	03/06/00		54.11	54.12	0.01	3500.29
	03/23/00		(a)	54.95	(a)	3499.45
	04/06/00		54.05	54.07	0.02	3500.35
	04/20/00		54.19	54.20	0.01	3500.21
	05/11/00		54.21	54.22	0.01	3500.19
	05/25/00		(a)	54.21	(a)	3500.19
	06/08/00		(a)	54.18	(a)	3500.22
	06/22/00		(a)	54.18	(a)	3500.22
	07/13/00		(a)	54.19	(a)	3500.21
	07/27/00		(a)	54.19	(a)	3500.21
	08/03/00		54.03	54.04	0.01	3500.37
	08/21/00*		(a)	54.02	(a)	3500.38
	09/14/00		(a)	53.60	(a)	3500.80
	09/28/00		(a)	53.58	(a)	3500.82
	10/12/00		(a)	53.55	(a)	3500.85
	11/03/00		(a)	53.35	(a)	3501.05
	11/16/00		(a)	53.29	(a)	3501.11
	12/06/00		(a)	53.25	sheen	3501.15
	01/25/01		(a)	53.11	(a)	3501.29
	02/17/01*		53.04	53.05	0.01	3501.36
	02/23/01		(a)	53.00	(a)	3501.40
	03/30/01		(a)	52.95	(a)	3501.45
	08/15/01		(a)	56.16	(a)	3498.24
	02/27/02*		(a)	52.70	(a)	3501.70
	07/31/02*		(a)	52.60	(a)	3501.80
	02/13/03*		(a)	52.47	sheen	3501.93
	08/04/03*		(a)	52.30	sheen	3502.10
	05/24/04*		(a)	52.27	(a)	3502.13
	11/09/04*		(a)	52.37	sheen	3502.03
	04/11/05*		(a)	52.06	(a)	3502.34
	12/01/05*		(a)	51.50	(a)	3502.90
	05/10/06*		(a)	50.89	sheen	3503.51
	12/14/06*		(a)	50.53	(a)	3503.87
	06/20/07*		(a)	50.10	sheen	3504.30
	12/07/07*		(a)	49.85	sheen	3504.55

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-11	06/04/99	3555.33 (e)	54.94	55.32	0.38	3500.31
	06/29/99		54.94	55.31	0.37	3500.32
	07/08/99		54.87	56.51	1.64	3500.13
	07/27/99		54.52	56.18	1.66	3500.48
	08/11/99*		54.32	55.91	1.59	3500.69
	08/13/99		54.66	55.80	1.14	3500.44
	09/02/99		54.30	54.39	0.09	3501.01
	09/14/99		55.30	56.14	0.84	3499.86
	10/05/99		54.80	54.85	0.05	3500.52
	11/02/99		54.58	54.59	0.01	3500.75
	11/16/99		(a)	54.21	(a)	3501.12
	12/02/99		(a)	54.20	(a)	3501.13
	12/30/99		(a)	53.86	(a)	3501.47
	01/13/00		(a)	53.99	(a)	3501.34
	01/25/00		(a)	54.64	(a)	3500.69
	02/03/00		(a)	54.32	(a)	3501.01
	02/13/00*		53.87	53.89	0.02	3501.46
	03/23/00		57.55	57.56	0.01	3497.78
	04/06/00		(a)	56.00	(a)	3499.33
	05/11/00		(a)	55.26	(a)	3500.07
	05/25/00		(a)	54.63	(a)	3500.70
	06/08/00		(a)	54.73	(a)	3500.60
	06/22/00		(a)	55.28	(a)	3500.05
	07/13/00		54.62	54.63	0.01	3500.71
	07/27/00		(a)	54.29	(a)	3501.04
	08/03/00		(a)	54.22	(a)	3501.11
	08/21/00*		(a)	53.77	(a)	3501.56
	09/14/00		(a)	53.92	(a)	3501.41
	09/28/00		(a)	53.92	(a)	3501.41
	10/12/00		(a)	53.95	(a)	3501.38
	11/03/00		53.75	53.76	0.01	3501.58
	11/16/00		53.76	53.77	0.01	3501.57
	12/06/00		53.83	53.89	0.06	3501.49
	01/25/01		53.64	53.71	0.07	3501.68
	02/17/01*		53.76	53.87	0.11	3501.55
	02/23/01		53.47	53.54	0.07	3501.85
	03/30/01		53.48	53.55	0.07	3501.84
	08/15/01		(a)	53.43	(a)	3501.90
	02/27/02*		53.35	53.43	0.08	3501.96
	07/31/02*		53.15	53.16	0.01	3502.18
	02/13/03*		(a)	53.03	sheen	3502.30
	08/04/03*		51.81	52.02	0.21	3503.48
	05/24/04*		55.85	56.33	0.48	3499.38
	11/09/04*		52.94	53.31	0.37	3502.32
	04/11/05*		52.54	52.55	0.01	3502.79
	12/01/05*		51.81	53.05	1.24	3503.27
	05/10/06*		51.19	52.55	1.36	3503.87
	12/14/06*		(a)	50.71	sheen	3504.62
	06/20/07*		50.36	52.04	1.68	3504.63
	12/07/07*		50.05	51.90	1.85	3504.91

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-12	06/04/99	3555.64 (e)	55.00	58.71	3.71	3499.90
	07/13/99		55.25	55.83	0.58	3500.27
	07/27/99		54.99	56.16	1.17	3500.42
	08/03/99		55.11	56.41	1.30	3500.27
	09/07/99		54.29	54.30	0.01	3501.35
	09/14/99		55.28	55.29	0.01	3500.36
	10/12/99		53.35	53.37	0.02	3502.29
	10/28/99		(a)	54.56	(a)	3501.08
	11/11/99		(a)	54.23	(a)	3501.41
	11/30/99		(a)	53.88	(a)	3501.76
	12/14/99		(a)	53.89	(a)	3501.75
	12/30/99		(a)	53.82	(a)	3501.82
	01/25/00		(a)	54.33	(a)	3501.31
	02/03/00		(a)	54.41	(a)	3501.23
	02/13/00*		(a)	54.17	sheen	3501.47
	04/20/00		(a)	56.38	(a)	3499.26
	06/15/00		(a)	55.25	(a)	3500.39
	07/13/00		(a)	54.50	(a)	3501.14
	07/27/00		(a)	53.97	(a)	3501.67
	08/03/00		(a)	53.19	(a)	3502.45
	08/21/00*		(a)	53.73	(a)	3501.91
	09/14/00		(a)	53.57	(a)	3502.07
	09/28/00		(a)	53.82	(a)	3501.82
	10/12/00		(a)	53.54	(a)	3502.10
	11/03/00		(a)	54.04	(a)	3501.60
	11/16/00		(a)	54.06	(a)	3501.58
	12/06/00		(a)	54.12	sheen	3501.52
	01/25/01		53.92	53.94	0.02	3501.72
	02/17/01*		54.06	54.10	0.04	3501.57
	02/23/01		(a)	52.28	(a)	3503.36
	03/30/01		53.79	53.88	0.09	3501.83
	08/15/01		(a)	53.73	(a)	3501.91
	02/27/02*		53.60	53.61	0.01	3502.04
	07/31/02*		53.44	53.59	0.15	3502.17
	02/13/03*		53.47	53.62	0.15	3502.14
	08/04/03*		53.23	53.57	0.34	3502.34
	05/24/04*		53.13	53.74	0.61	3502.39
	11/09/04*		53.33	53.87	0.54	3502.20
	04/11/05*		52.97	52.98	0.01	3502.67
	12/01/05*		52.20	52.90	0.70	3503.30
	05/10/06*		51.61	52.37	0.76	3503.88
	12/14/06*		51.22	52.12	0.90	3504.24
	06/20/07*		50.81	51.81	1.00	3504.63
	12/07/07*		50.52	51.57	1.05	3504.91

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-13	06/04/99	3554.11 (e)	53.73	54.83	1.10	3500.16
	06/24/99		53.65	54.02	0.37	3500.39
	07/15/99		53.97	54.02	0.05	3500.13
	07/27/99		53.28	53.30	0.02	3500.83
	08/11/99*		53.37	53.39	0.02	3500.74
	08/26/99		(a)	53.27	(a)	3500.84
	09/14/99		(a)	53.93	(a)	3500.18
	09/28/99		(a)	53.24	(a)	3500.87
	10/07/99		(a)	53.36	(a)	3500.75
	10/21/99		(a)	53.51	(a)	3500.60
	11/11/99		(a)	53.00	(a)	3501.11
	11/30/99		(a)	52.56	(a)	3501.55
	12/14/99		(a)	52.54	(a)	3501.57
	12/30/99		(a)	52.38	(a)	3501.73
	01/25/00		(a)	54.18	(a)	3499.93
	02/03/00		(a)	52.79	(a)	3501.32
	02/13/00*		(a)	52.60	(a)	3501.51
	03/06/00		(a)	53.45	(a)	3500.66
	03/23/00		(a)	56.07	(a)	3498.04
	04/06/00		(a)	54.76	(a)	3499.35
	05/11/00		(a)	53.54	(a)	3500.57
	05/25/00		(a)	52.68	(a)	3501.43
	06/08/00		(a)	53.16	(a)	3500.95
	06/22/00		(a)	54.22	(a)	3499.89
	07/13/00		(a)	52.91	(a)	3501.20
	07/27/00		(a)	52.67	(a)	3501.44
	08/03/00		(a)	52.48	(a)	3501.63
	08/21/00*		(a)	52.47	(a)	3501.64
	09/14/00		(a)	52.65	(a)	3501.46
	09/28/00		(a)	52.58	(a)	3501.53
	10/12/00		(a)	52.57	(a)	3501.54
	11/03/00		(a)	52.49	(a)	3501.62
	11/16/00		(a)	52.51	(a)	3501.60
	12/06/00		(a)	52.59	(a)	3501.52
	01/25/01		(a)	52.41	(a)	3501.70
	02/17/01*		(a)	52.55	(a)	3501.56
	02/23/01		53.72	53.74	0.02	3500.39
	03/30/01		(a)	52.26	(a)	3501.85
	08/15/01		(a)	52.16	(a)	3501.95
	02/27/02*		(a)	52.14	(a)	3501.97
	07/31/02*		(a)	51.93	(a)	3502.18
	02/13/03*		(a)	52.01	(a)	3502.10
	08/04/03*		(a)	51.81	(a)	3502.30
	05/24/04*		(a)	51.70	(a)	3502.41
	11/09/04*		(a)	50.90	(a)	3503.21
	04/11/05*		(a)	51.49	(a)	3502.62
	12/01/05*		(a)	50.86	(a)	3503.25
	05/10/06*		(a)	49.18	(a)	3504.93
	12/14/06*		(a)	48.76	(a)	3505.35
	06/20/07*		(a)	48.46	(a)	3505.65
	12/07/07*		(a)	48.21	(a)	3505.90

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-14	06/04/99	3554.83 (e)	(a)	54.43	(a)	3500.40
	06/24/99		(a)	52.01	(a)	3502.82
	07/15/99		(a)	52.76	(a)	3502.07
	07/27/99		(a)	52.03	(a)	3502.80
	08/11/99*		(a)	54.13	(a)	3500.70
	08/26/99		(a)	52.40	(a)	3502.43
	09/14/99		(a)	52.61	(a)	3502.22
	09/28/99		(a)	52.36	(a)	3502.47
	10/07/99		(a)	52.14	(a)	3502.69
	10/21/99		(a)	54.37	(a)	3500.46
	11/11/99		(a)	53.09	(a)	3501.74
	11/30/99		(a)	51.51	(a)	3503.32
	12/14/99		(a)	51.16	(a)	3503.67
	12/30/99		(a)	53.32	(a)	3501.51
	01/13/00		(a)	53.51	(a)	3501.32
	01/25/00		(a)	51.42	(a)	3503.41
	02/03/00		(a)	51.28	(a)	3503.55
	02/13/00*		(a)	53.36	(a)	3501.47
	02/17/01*		(a)	53.31	(a)	3501.52
	08/21/00*		(a)	53.37	(a)	3501.46
	02/17/01*		(a)	53.31	(a)	3501.52
	08/15/01		(a)	52.95	(a)	3501.88
	02/27/02*		(a)	52.88	sheen	3501.95
	07/31/02*		(a)	52.67	(a)	3502.16
	02/13/03*		(a)	52.75	sheen	3502.08
	08/04/03*		52.56	52.57	0.01	3502.27
	05/24/04*		(a)	52.51	(a)	3502.32
	11/09/04*		(a)	51.65	(a)	3503.18
	04/11/05*		(a)	49.37	(a)	3505.46
	12/01/05*		51.65	51.66	0.01	3503.18
	05/10/06*		(a)	50.02	(a)	3504.81
	12/14/06*		(a)	49.56	(a)	3505.27
	06/20/07*		(a)	49.08	(a)	3505.75
	12/07/07*		Sheen	48.64	(a)	3506.19

Notes:

- (a) Not Applicable
- (b) No elevation data available
- (c) Survey by John West Engineering, Hobbs, NM dated 11/94
- (d) Survey by John West Engineering, Hobbs, NM dated 02/22/96
- (e) Survey by Cypress Engineering, Houston, TX dated 08/11/99
- (f) SVE-3 plugged and abandoned on 12-01-04 by George Friend.

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
MW-9	11/21/94	-	-	-	-	12	< 0.5	< 0.5	< 0.5
	11/21/95	-	7.03	19.4	2,890	4	3	< 2	11
	02/22/96	-	6.48	22.2	2,980	13	< 2	< 2	< 2
	05/14/96	-	-	-	-	14	< 2	< 2	< 2
	08/12/96	-	6.79	27.0	3,090	14	< 2	< 2	< 3
	11/12/96	-	6.97	16.6	-	9	< 2	< 2	< 2
	02/05/97	3.0	7.26	16.3	3,900	13	< 2	< 2	< 2
	08/05/97	1.8	6.97	20.7	3,580	3	< 2	< 2	< 2
	02/24/98	4.2	7.00	20.3	3,550	16.3	< 5	< 5	< 5
	08/05/98	2.2	6.93	22.6	3,910	1.9	< 1	< 1	< 1
	02/12/99	-	-	-	-	6	< 1	< 1	< 1
	08/11/99	3.1	6.9	21.0	3,230	< 2	< 2	< 2	< 2
	02/13/00	-	-	-	-	3.0	< 1	< 1	< 1
	08/21/00	(a)	-	-	-	1.5	< 0.5	0.5	0.9
	02/17/01	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.10
	08/15/01	2.6	7.12	22.5	3,140	2.06	< 1	< 1	< 2
	02/27/02	3.6	6.94	21.9	4,130	6	< 1	< 1	< 1
	08/01/02	3.7	6.80	21.5	3,810	< 0.50	< 0.50	< 0.50	< 0.50
	02/13/03	2.8	6.98	22.7	4,310	0.86	< 0.50	< 0.50	< 0.50
	08/05/03	2.1	6.91	23.3	3,830	0.60	< 0.50	< 0.50	< 0.50
	05/24/04	2.7	7.07	22.9	4,090	< 0.50	< 0.50	< 0.50	< 0.50
	11/09/04*	3.3	6.83	20.6	4,423	< 0.50	< 0.50	< 0.50	< 0.50
	04/11/05	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50
	12/01/05	4.6	7.16	19.8	3,977	< 0.50	< 0.50	< 0.50	< 0.50
	05/10/06	6.1	6.98	21.0	4,104	< 1	< 1	< 1	< 3
	12/14/06	5.5	6.95	20.5	4,355	< 1	< 1	< 1	< 3
	06/21/07	5.8	7.18	20.9	4,132	< 1	< 1	< 1	< 2
	12/07/07	4.9	6.90	20.4	3,957	< 1	< 1	< 1	< 2

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
MW-10	11/18/94	-	-	-	-	9,000	16,000	620	8,500
	08/05/98	-	-	-	-	4,000	7,500	190	3,100
	02/12/99	-	-	-	-	4,300	7,700	340	3,300
	11/18/99	-	-	-	-	3,400	5,600	280	3,100
	02/13/00	-	-	-	-	4,800	9,200	710	6,200
	06/20/00	-	-	-	-	3,700	6,600	380	3,900
	08/15/01	-	-	-	-	4,590	454	429	4,680

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
MW-11	11/21/94	(b)	-	-	-	-	-	-	-
	11/21/95		-	-	-	< 2	< 2	< 2	< 2
	02/22/96		-	7.34	21.9	1,920	< 2	< 2	< 2
	05/14/96		-	-	-	-	< 2	< 2	< 2
	08/12/96		-	7.11	25.7	2,050	< 2	< 2	< 2
	11/11/96		6.0	7.15	19.9	-	< 2	< 2	< 2
	02/05/97		7.0	7.56	14.8	2,300	< 2	< 2	< 2
	08/05/97		5.3	7.19	21.2	2,280	< 2	< 2	< 2
	02/24/98		6.5	7.35	18.8	2,100	< 5	< 5	< 5
	08/05/98		7.2	7.15	20.4	2,250	< 1	< 1	< 1
	02/12/99		-	-	-	-	< 1	< 1	< 1
	08/11/99		8.8	7.42	20.8	1,800	< 2	< 2	< 2
	02/13/00		6.6	7.83	19.6	2,050	< 1	< 1	< 1
	08/21/00	(a)	6.7	7.41	21.6	1,720	< 0.5	< 0.5	< 0.5
	02/17/01		-	-	-	-	< 0.500	< 0.500	< 0.500
	08/15/01		6.0	7.20	20.3	1,932	< 1	< 1	< 1
	02/27/02		6.3	7.38	21.6	2,020	< 1	< 1	< 1
	08/01/02		7.9	6.87	23.5	1,700	< 0.50	< 0.50	< 0.50
	02/13/03		6.1	7.41	22.3	1,960	< 0.50	< 0.50	< 0.50
	08/05/03		5.0	7.47	22.7	1,660	< 0.50	< 0.50	< 0.50
	05/24/04		5.1	7.46	21.9	1,780	< 0.50	< 0.50	< 0.50
	11/09/04*		5.8	7.14	20.2	1,775	< 0.50	< 0.50	< 0.50
	04/11/05		-	-	-	-	< 0.50	< 0.50	< 0.50
	12/01/05		5.8	7.46	19.5	1,456	< 0.50	< 0.50	< 0.50
	05/10/06		7.3	7.36	20.1	1,481	< 1	< 1	< 1
	12/14/06		7.3	7.28	20.0	1,374	< 1	< 1	< 1
	06/21/07		7.4	6.99	20.3	1,322	< 1	< 1	< 1
	12/07/07		6.7	7.26	20.0	1,216	< 1	< 1	< 1

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)				
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes	
NMWQCC Standard		none	6-9	none	none	10	750	750	620	
MW-12	11/17/94	-	-	-	-	< 0.5	1.9	< 0.5	3.1	
	11/21/95	-	6.97	19.2	3,260	< 2	< 2	< 2	< 2	
	02/22/96	-	6.71	22.6	3,400	< 2	< 2	< 2	< 2	
	05/14/96	-	-	-	-	< 2	< 2	< 2	< 2	
	08/12/96	-	6.70	26.8	3,430	< 2	< 2	< 2	< 3	
	11/12/96	6.0	7.06	19.3	-	< 2	< 2	< 2	< 2	
	02/05/97	7.0	7.23	15.8	3,900	< 2	< 2	< 2	< 2	
	08/05/97	4.9	6.85	21.8	3,880	< 2	< 2	< 2	< 2	
	02/24/98	6.0	7.06	20.1	3,570	< 5	< 5	< 5	< 5	
	08/05/98	5.6	6.96	22.1	3,830	< 1	< 1	< 1	< 1	
	02/12/99	-	-	-	-	< 1	< 1	< 1	< 1	
	08/11/99	6.7	7.13	20.7	3,770	< 2	< 2	< 2	< 2	
	02/13/00	5.4	7.10	20.1	3,780	< 1	< 1	< 1	< 1	
	08/21/00	(a)	6.7	7.06	21.1	3,350	< 0.5	0.5	0.8	1.1
	02/17/01	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.10	
	08/15/01	4.5	7.23	20.7	3,690	< 1	< 1	< 1	< 2	
	02/27/02	4.6	7.01	22.4	4,030	< 1	< 1	< 1	< 1	
	08/01/02	4.3	6.84	21.4	3,580	< 0.50	< 0.50	< 0.50	< 0.50	
	02/13/03	4.3	7.04	22.8	3,930	< 0.50	< 0.50	< 0.50	< 0.50	
	08/05/03	4.1	7.05	23.4	3,380	< 0.50	< 0.50	< 0.50	< 0.50	
	05/24/04	4.1	7.09	22.1	3,540	< 0.50	< 0.50	< 0.50	< 0.50	
	11/09/04*	4.2	6.90	20.4	3,547	< 0.50	< 0.50	< 0.50	< 0.50	
	04/11/05	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
	12/01/05	3.5	7.09	19.7	3,000	< 0.50	< 0.50	< 0.50	< 0.50	
	05/10/06	4.8	6.75	20.5	3,128	< 1	< 1	< 1	< 3	
	12/14/06	4.2	7.06	20.0	2,999	< 1	< 1	< 1	< 3	
	06/21/07	4.4	7.11	20.4	3,049	< 1	< 1	< 1	< 2	
	12/07/07	4.0	6.80	20.0	3,021	< 1	< 1	< 1	< 2	

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)				
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes	
NMWQCC Standard		none	6-9	none	none	10	750	750	620	
MW-13	12/01/94	-	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	
	11/21/95	-	7.63	20.3	1,530	< 2	< 2	< 2	< 2	
	02/22/96	-	7.18	24.1	1,880	< 2	< 2	< 2	< 2	
	05/14/96	-	-	-	-	< 2	3	< 2	7	
	08/12/96	-	7.02	26.7	1,980	< 2	< 2	< 2	< 3	
	11/11/96	4.0	7.18	18.8	-	< 2	< 2	< 2	< 2	
	02/05/97	7	7.65	17.7	1,900	< 2	< 2	< 2	< 2	
	08/05/97	5.2	7.38	21.1	1,830	< 2	< 2	< 2	< 2	
	02/24/98	4.5	7.27	19.5	1,703	< 5	< 5	< 5	< 5	
	08/05/98	5.5	7.28	20.30	1,840	< 1	< 1	< 1	< 1	
	02/12/99	-	-	-	-	< 1	< 1	< 1	< 1	
	08/11/99	6.5	7.42	20.6	1,700	< 2	< 2	< 2	< 2	
	02/13/00	5.2	7.37	19.3	1,753	< 1	< 1	< 1	< 1	
	08/21/00	(a)	6.4	7.57	21.1	1,640	0.4	0.5	2.3	2.9
	02/17/01	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.10	
	08/15/01	4.2	7.42	20.6	1,646	< 1	< 1	< 1	< 2	
	02/27/02	4.1	7.33	21.7	1,804	< 1	< 1	< 1	< 1	
	08/01/02	4.5	6.90	20.7	1,600	< 0.50	< 0.50	< 0.50	< 0.50	
	02/13/03	4.2	7.37	22.3	1,803	< 0.50	< 0.50	< 0.50	< 0.50	
	08/05/03	4.6	7.42	22.5	1,620	< 0.50	< 0.50	< 0.50	< 0.50	
	05/24/04	4.4	7.43	22.0	1,800	< 0.50	< 0.50	< 0.50	< 0.50	
	11/09/04*	4.8	7.11	20.0	1,979	< 0.50	< 0.50	< 0.50	< 0.50	
	04/11/05	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
	12/01/05	3.6	7.26	18.8	1,928	< 0.50	< 0.50	< 0.50	< 0.50	
	05/10/06	5.2	7.14	20.5	2,427	< 1	< 1	< 1	< 3	
	12/14/06	2.0	6.93	19.7	2,710	< 1	< 1	< 1	< 3	
	06/21/07	1.9	6.99	20.2	2,921	< 1	< 1	< 1	< 2	
	12/07/07	1.5	6.80	19.9	3,130	< 1	< 1	< 1	< 2	

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
SVE-13	02/13/00	-	-	-	-	1,300	1,800	270	1,900
	06/20/00	-	-	-	-	1,600	2,300	170	2,100
@ 1 well vol	08/21/00	(a)	-	-	-	110	140	91	390
	08/21/00	(a)	-	-	-	240	370	110	1,000
@ 1 well vol	02/18/01		-	-	-	968	789	93.2	831
	02/18/01		-	-	-	1,170	1,110	124	1,240
(Dup MW-17)	02/18/01		-	-	-	860	613	96.2	864
	08/15/01		-	-	-	773	60.1	73.1	520.3
	02/28/02		-	-	-	614	< 50	< 50	1,670
(Dup MW-24)	02/28/02		-	-	-	686	604	619	1,670
	08/01/02		-	-	-	720	< 10	74	220
	02/13/03		-	-	-	760	< 10	120	300
	08/05/03		-	-	-	1,100	< 10	93	250
	05/24/04		-	-	-	620	21	73	230
	11/09/04*		-	-	-	920	< 20	150	260
	04/11/05		-	-	-	800	4.8	120	160
	12/01/05		-	-	-	590	9.5	110	150
	05/11/06		-	-	-	640	< 10	120	67
	12/14/06		-	-	-	540	12	110	72
	06/21/07		-	-	-	710	< 10	160	76
	12/07/07		-	-	-	580	7.5	160	79

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
SVE-14	09/08/99	1.2	6.89	22.0	2,460	1,600	1,200	360	1,300
	11/18/99	-	-	-	-	1,400	560	400	970
	02/13/00	-	-	-	-	3,000	4,200	510	3,000
	06/20/00	-	-	-	-	1,600	2,300	330	2,400
@ 1 well vol	08/21/00 (a)	-	-	-	-	1,600	1,900	440	2,430
	08/21/00 (a)	5.6	7.25	22.8	2830	2,100	2,900	380	2,620
@ 1 well vol	02/18/01	-	-	-	-	819	1,130	297	1,900
	02/18/01	-	-	-	-	3,740	5,910	344	3,880
(Dup MW-18)	02/18/01	-	-	-	-	2,150	3,290	445	2,910
	08/15/01	-	-	-	-	369	1,520	632	6,440
	08/01/02	-	-	-	-	3,000	2,900	380	4,100
	05/24/04	-	-	-	-	260	340	260	1,800

NOTES:

(a) Trip Blank contained low concentrations of BTEX constituents.

(b) No sample collected due to insufficient volume of water in well.

(c) @ 1 well vol - Sample collected after purging 1 casing volume. All other samples were collected after purging 3 casing volumes.

(d) Dup MW-17 - Blind duplicate sample collected and labeled as MW-17.

**Table 4. Summary of SVE Vapor Concentration Monitoring
TW WT-1 Compressor Station Dehy Area**

SVE Well	Date	Gasoline Range VOCs		< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ug/L)	(ppmv) ^(c)	(%)									
Combined Flow													
(Core Lab)	02/10/97		6,240										
	03/20/97	6,600	1,639	0.0	2.7	29.3	32.1	23.2	9.2	3.0	0.4	0.1	0.0
(Core Lab)	03/20/97		1,740										
	08/06/97	5,000	1,242	0.3	4.0	21.2	34.8	25.3	10.2	3.5	0.7	0.0	0.0
	12/30/97	7,300	1,813	0.0	2.4	13.6	35.0	29.0	16.9	2.6	0.4	0.1	0.0
	08/05/98	6,500	1,615	0.0	1.3	15.4	32.2	30.5	13.7	5.2	1.3	0.4	0.0
	08/12/98	5,300	1,317	0.0	1.5	8.9	30.9	30.5	22.5	4.7	0.9	0.1	0.0
(dup)	08/12/98	5,000	1,242	0.1	1.5	8.8	31.8	32.9	18.0	5.0	1.4	0.4	0.1
	04/13/99	6,800	1,689	0.0	1.2	8.0	28.5	32.7	23.6	3.9	1.8	0.3	0.0
	12/07/99	4,800	1,192	0.1	6.2	17.6	31.8	28.8	10.0	4.2	0.9	0.2	0.2
(dup)	12/07/99	4,900	1,217	0.1	6.2	17.5	32.3	28.6	9.7	4.2	1.1	0.3	0.0
	05/22/00(d)	3,700	919	0.0	3.8	13.4	35.0	28.7	12.4	4.7	0.8	0.6	0.6
(dup)	05/22/00(d)	6,300	1,565	0.0	3.2	12.1	34.1	31.5	11.4	5.4	1.6	0.6	0.1
	06/15/00(d)	3,000	745	0.1	3.9	16.6	37.7	29.8	8.6	2.1	0.6	0.1	0.5
(dup)	06/15/00(d)	3,700	919	0.1	3.3	15.4	32.6	29.8	10.9	5.8	1.6	0.4	0.1
	08/21/00(d)	3,900	969	0.0	2.9	12.2	28.7	30.0	15.4	7.9	2.4	0.5	0.0
	06/10/02(d)	3,630	902	0.0	1.3	8.3	27.1	30.8	24.6	4.8	2.6	0.5	0.0
(dup)	06/10/02(d)	3,440	854	0.0	1.4	8.4	27.9	31.6	24.3	4.2	2.1	0.1	0.0
	08/09/02(d)	551	137	0.0	4.3	18.9	31.5	23.8	10.3	3.5	2.2	2.9	2.6
(dup)	08/09/02(d)	543	135	0.0	4.6	20.6	34.0	25.1	10.3	3.2	1.5	0.3	0.4
	05/02/03(d)	3,450	857	0.3	3.3	14.6	29.3	19.8	24.4	5.4	2.8	0.1	0.0
(dup)	05/02/03(d)	2,740	681	0.3	3.4	15.3	30.3	20.0	23.4	4.8	2.4	0.1	0.0
	07/25/03(d)	665	165	0.0	2.8	17.2	28.3	34.4	15.4	1.7	0.2	0.0	0.0
(dup)	07/25/03(d)	1,550	385	0.0	2.0	11.7	23.6	36.4	21.1	4.2	1.0	0.0	0.0
	08/21/03(d)	2,590	643	0.0	4.7	20.1	16.0	26.0	25.8	6.1	1.2	0.1	0.0
	04/20/04(d)	2,750	683	0.5	3.4	13.8	21.4	38.3	15.7	5.9	0.9	0.1	0.0
(dup)	04/20/04(d)	2,740	681	0.6	3.7	15.1	23.6	31.3	17.7	6.5	1.1	0.3	0.1
	08/30/04(d)	2,590	643	2.7	5.2	15.9	29.3	24.5	15.3	5.9	1.2	0.0	0.0
(dup)	08/30/04(d)	2,110	524	0.7	3.1	13.2	29.8	27.1	17.5	6.7	1.5	0.3	0.1
	08/08/05(d)	2,060	512	0.8	2.8	11.8	25.3	27.7	20.3	7.5	2.8	1.0	0.0
(dup)	08/08/05(d)	2,440	606	0.8	2.6	11.2	26.1	28.8	21.8	6.3	2.0	0.4	0.0
	11/14/05(d)	1,620	402	0.8	3.6	10.9	30.8	27.0	16.1	7.5	2.9	0.4	0.0
(dup)	11/14/05(d)	1,830	455	0.7	3.2	10.0	29.4	27.4	17.3	8.1	3.2	0.7	0.0
	09/18/06(e)	1,250	311	1.7	4.2	15.1	29.2	27.0	15.6	6.0	1.2	0.0	0.0
(dup)	09/18/06(e)	1,300	323	1.8	4.4	15.7	29.9	27.4	14.7	5.4	0.7	0.0	0.0

Notes:
(a) All air samples analyzed by Hall Laboratory of Albuquerque, NM
(b) PID = Photoionization detector
(c) Conversion Factor:
P = 0.88 atm, MW = 110 g/mole, R = 0.08205 L*atm/(K*mole), T = 293oK
C ppmv = C ug/L * ((R * T)/(MW*P))
C ppmv = C ug/L * 0.2484
(d) Total Flow analysis included wells SVE-11, 12, 13, 14 & MW-10
(e) Total Flow analysis included wells SVE-6, 11, 12, 14 & MW-10

**Table 5. Summary of Completion Details for Soil Borings Completed as Wells
TWP WT-1 Compressor Station Dehy Area**

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)
MW-9	Eades Drlg/DBS	11/18/94	3557.31 (b)	-1209.40	-1254.20	60.5	na	Flush Mount	2	44-59	40.5
MW-10	Eades Drlg/DBS	11/17/94	3553.45 (b)	-986.60	-1342.10	62.5	63.57	Flush Mount	2	47.5-62.5	43.5
MW-11	Eades Drlg/DBS	11/21/94	3547.84 (b)	-864.70	-1562.50	65.0	59.78	Flush Mount	2	45-60	38.5
MW-12	Eades Drlg/DBS	11/16/94	3551.19 (b)	-818.40	-1192.90	60.0	60.11	Flush Mount	2	45-60	42.3
MW-13	Eades Drlg/DBS	11/16/94	3547.78 (b)	-708.90	-1359.20	58.0	57.52	Flush Mount	2	43-58	39.5
SVE-1	Eades Drlg/DBS	10/04/95	3551.22 (d)	-903.90	-1406.60	55.0	54.49	Flush Mount	2	35-55	32.9
SVE-2	Eades Drlg/DBS	10/05/95	3551.96 (d)	-901.70	-1325.80	53.0	52.75	Flush Mount	2	33-53	30.8
SVE-3	Eades Drlg/DBS	10/05/95	3552.75 (d)	-888.70	-1245.80	55.0	55.30	Flush Mount	2	35-55	32.6
SVE-3 P&A	CES	12/01/04	--	--	--	--	--	--	--	--	--
SVE-4	Eades Drlg/DBS	10/04/95	3553.03 (c)	-989.20	-1359.10	55.0	na	Flush Mount	2	30-55	27.9
SVE-4 P&A (e)	GPI/CES	05/25/99	--	--	--	--	--	--	--	--	--
SVE-5	Eades Drlg/DBS	10/04/95	3554.39 (d)	-986.40	-1275.10	52.7	52.11	Flush Mount	2	32.7-52.7	30.0
SVE-6	Eades Drlg/DBS	10/05/95	3553.74 (d)	-984.10	-1198.40	55.0	54.29	Flush Mount	2	35-55	32.8
SVE-7	Eades Drlg/DBS	10/04/95	3553.81 (d)	-1071.00	1402.50	58.0	57.68	Flush Mount	2	33-58	31.8
SVE-8	Eades Drlg/DBS	10/05/95	3555.25 (d)	-1072.80	-1314.70	56.5	56.76	Flush Mount	2	36.5-56.5	34.8
SVE-9	Eades Drlg/DBS	10/05/95	3555.36 (d)	-1073.10	-1249.20	56.2	55.90	Flush Mount	2	36.2-56.2	34.2
SVE-10 (e)	GPI/CES	05/25/99	3554.40 (d)	-989.58	-1359.42	66.6	64.46	Flush Mount	4	47.5-62.5	42.7
SVE-11	GPI/CES	05/14/99	3555.33 (d)	-986.39	-1269.94	63.4	63.93	Flush Mount	4	47.5-62.5	44.5
SVE-12	GPI/CES	05/14/99	3555.64 (d)	-985.74	-1307.78	63.5	63.55	Flush Mount	4	47.5-62.5	42.7
SVE-13	GPI/CES	05/10/99	3554.11 (d)	-954.94	-1314.42	64.8	63.21	Flush Mount	4	47.5-62.5	42.3
SVE-14	GPI/CES	05/14/99	3554.83 (d)	-960.46	-1248.58	63.4	63.97	Flush Mount	4	47.5-62.5	43.5

NOTES:

- (a) Driller/Consultant
- (b) Survey by John West Engineering on 11/94
- (c) Survey by John West Engineering on 2/96
- (d) Survey by Cypress Engineering on 8/99
- (e) SVE-10 is an overdrill of SVE-4
- na - Information not available

**Table 6. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
TW WT-1 Compressor Station Dehy Area**

Well ID	Analytical Requirements		Benzene (ppb) Latest Result	Comments
	1st Semiannual Event	2nd Semiannual Event		
MW-9	BTEX	BTEX	< 1	
MW-10	BTEX	BTEX	na	contains PSH
MW-11	BTEX	BTEX	< 1	clean downgradient well
MW-12	BTEX	BTEX	< 1	clean downgradient well
MW-13	BTEX	BTEX	< 1	clean downgradient well
SVE-13	BTEX	BTEX	580	
SVE-14	BTEX	BTEX	na	contains PSH intermittently
Notes: 1) na - not available 2) BTEX - BTEX Compounds by EPA Method 8021B				

COVER LETTER

Monday, July 02, 2007

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

TEL: (281) 797-3420

FAX (281) 859-1881

RE: TWP WT-1 DEHY

Order No.: 0706353

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 6/23/2007 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jul-07

CLIENT: Cypress Engineering
Project: TWP WT-1 DEHY

Lab Order: 0706353

Lab ID: 0706353-01 Collection Date: 6/21/2007 11:40:00 AM
Client Sample ID: MW-11 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2007 3:47:14 AM
Toluene	ND	1.0		µg/L	1	7/1/2007 3:47:14 AM
Ethylbenzene	ND	1.0		µg/L	1	7/1/2007 3:47:14 AM
Xylenes, Total	ND	2.0		µg/L	1	7/1/2007 3:47:14 AM
Surr: 4-Bromofluorobenzene	82.3	70.2-105		%REC	1	7/1/2007 3:47:14 AM

Lab ID: 0706353-02 Collection Date: 6/21/2007 11:55:00 AM
Client Sample ID: MW-13 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2007 4:17:12 AM
Toluene	ND	1.0		µg/L	1	7/1/2007 4:17:12 AM
Ethylbenzene	ND	1.0		µg/L	1	7/1/2007 4:17:12 AM
Xylenes, Total	ND	2.0		µg/L	1	7/1/2007 4:17:12 AM
Surr: 4-Bromofluorobenzene	86.6	70.2-105		%REC	1	7/1/2007 4:17:12 AM

Lab ID: 0706353-03 Collection Date: 6/21/2007 9:45:00 AM
Client Sample ID: MW-12 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2007 4:47:18 AM
Toluene	ND	1.0		µg/L	1	7/1/2007 4:47:18 AM
Ethylbenzene	ND	1.0		µg/L	1	7/1/2007 4:47:18 AM
Xylenes, Total	ND	2.0		µg/L	1	7/1/2007 4:47:18 AM
Surr: 4-Bromofluorobenzene	81.5	70.2-105		%REC	1	7/1/2007 4:47:18 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jul-07

CLIENT: Cypress Engineering
Project: TWP WT-1 DEHY

Lab Order: 0706353

Lab ID: 0706353-04

Collection Date: 6/21/2007 10:10:00 AM

Client Sample ID: MW-9

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2007 5:49:52 AM
Toluene	ND	1.0		µg/L	1	7/1/2007 5:49:52 AM
Ethylbenzene	ND	1.0		µg/L	1	7/1/2007 5:49:52 AM
Xylenes, Total	ND	2.0		µg/L	1	7/1/2007 5:49:52 AM
Surr: 4-Bromofluorobenzene	80.0	70.2-105		%REC	1	7/1/2007 5:49:52 AM

Lab ID: 0706353-05

Collection Date: 6/21/2007 11:10:00 AM

Client Sample ID: SVE-13

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	710	10		µg/L	10	7/1/2007 6:22:31 AM
Toluene	ND	10		µg/L	10	7/1/2007 6:22:31 AM
Ethylbenzene	160	10		µg/L	10	7/1/2007 6:22:31 AM
Xylenes, Total	76	20		µg/L	10	7/1/2007 6:22:31 AM
Surr: 4-Bromofluorobenzene	91.7	70.2-105		%REC	10	7/1/2007 6:22:31 AM

Lab ID: 0706353-06

Collection Date:

Client Sample ID: TRIP BLANK

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2007 7:22:23 AM
Toluene	ND	1.0		µg/L	1	7/1/2007 7:22:23 AM
Ethylbenzene	ND	1.0		µg/L	1	7/1/2007 7:22:23 AM
Xylenes, Total	ND	2.0		µg/L	1	7/1/2007 7:22:23 AM
Surr: 4-Bromofluorobenzene	80.9	70.2-105		%REC	1	7/1/2007 7:22:23 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Cypress Engineering
Project: TWP WT-1 DEHY

Work Order: 0706353

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML REAGENT BLA		MBLK							
			Batch ID: R24198	Analysis Date: 6/30/2007 6:59:05 PM					
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: R24198	Analysis Date: 6/30/2007 11:44:25 PM					
Benzene	19.42	µg/L	1.0	97.1	85.9	113			
Toluene	19.80	µg/L	1.0	99.0	86.4	113			
Ethylbenzene	20.03	µg/L	1.0	100	83.5	118			
Xylenes, Total	59.67	µg/L	2.0	99.4	83.4	122			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	5-min recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name CYP

Date and Time Received:

6/23/2007

Work Order Number 0706353

Received by TLS

Checklist completed by

Janyia Shomin
Signature

6/23/07
Date

Matrix

Carrier name Greyhound

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?

5°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

COVER LETTER

Thursday, December 13, 2007

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

TEL: (281) 797-3420

FAX (281) 859-1881

RE: TWP WT-1 DEHY

Order No.: 0712139

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 12/11/2007 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-07

CLIENT: Cypress Engineering
Project: TWP WT-1 DEHY

Lab Order: 0712139

Lab ID: 0712139-01

Collection Date: 12/7/2007 4:00:00 PM

Client Sample ID: MW-11

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/11/2007 3:18:26 PM
Toluene	ND	1.0		µg/L	1	12/11/2007 3:18:26 PM
Ethylbenzene	ND	1.0		µg/L	1	12/11/2007 3:18:26 PM
Xylenes, Total	ND	2.0		µg/L	1	12/11/2007 3:18:26 PM
Surr: 4-Bromofluorobenzene	87.6	70.2-105		%REC	1	12/11/2007 3:18:26 PM

Lab ID: 0712139-02

Collection Date: 12/7/2007 4:05:00 PM

Client Sample ID: MW-13

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/11/2007 3:48:30 PM
Toluene	ND	1.0		µg/L	1	12/11/2007 3:48:30 PM
Ethylbenzene	ND	1.0		µg/L	1	12/11/2007 3:48:30 PM
Xylenes, Total	ND	2.0		µg/L	1	12/11/2007 3:48:30 PM
Surr: 4-Bromofluorobenzene	91.6	70.2-105		%REC	1	12/11/2007 3:48:30 PM

Lab ID: 0712139-03

Collection Date: 12/7/2007 2:30:00 PM

Client Sample ID: MW-12

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/11/2007 4:18:34 PM
Toluene	ND	1.0		µg/L	1	12/11/2007 4:18:34 PM
Ethylbenzene	ND	1.0		µg/L	1	12/11/2007 4:18:34 PM
Xylenes, Total	ND	2.0		µg/L	1	12/11/2007 4:18:34 PM
Surr: 4-Bromofluorobenzene	86.8	70.2-105		%REC	1	12/11/2007 4:18:34 PM

Lab ID: 0712139-04

Collection Date: 12/7/2007 2:55:00 PM

Client Sample ID: MW-9

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/11/2007 4:48:40 PM
Toluene	ND	1.0		µg/L	1	12/11/2007 4:48:40 PM
Ethylbenzene	ND	1.0		µg/L	1	12/11/2007 4:48:40 PM
Xylenes, Total	ND	2.0		µg/L	1	12/11/2007 4:48:40 PM
Surr: 4-Bromofluorobenzene	86.3	70.2-105		%REC	1	12/11/2007 4:48:40 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-07

CLIENT: Cypress Engineering
Project: TWP WT-1 DEHY**Lab Order:** 0712139**Lab ID:** 0712139-05**Collection Date:** 12/7/2007 3:45:00 PM**Client Sample ID:** SVE-13**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	580	10		µg/L	10	12/11/2007 5:21:21 PM
Toluene	7.5	2.0		µg/L	2	12/13/2007 2:33:42 AM
Ethylbenzene	160	2.0		µg/L	2	12/13/2007 2:33:42 AM
Xylenes, Total	79	4.0		µg/L	2	12/13/2007 2:33:42 AM
Surr: 4-Bromofluorobenzene	116	70.2-105	S	%REC	2	12/13/2007 2:33:42 AM

Lab ID: 0712139-06
Client Sample ID: TRIP BLANK**Collection Date:**
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/11/2007 5:51:30 PM
Toluene	ND	1.0		µg/L	1	12/11/2007 5:51:30 PM
Ethylbenzene	ND	1.0		µg/L	1	12/11/2007 5:51:30 PM
Xylenes, Total	ND	2.0		µg/L	1	12/11/2007 5:51:30 PM
Surr: 4-Bromofluorobenzene	86.1	70.2-105		%REC	1	12/11/2007 5:51:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Cypress Engineering
 Subject: TWP WT-1 DEHY

Work Order: 0712139

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 0712139-02A MSD

MSD

Batch ID: R26481

Analysis Date: 12/11/2007 7:22:03 PM

Benzene	21.08	µg/L	1.0	105	85.9	113	1.44	27	
Toluene	21.18	µg/L	1.0	106	86.4	113	0.844	19	
Ethylbenzene	21.67	µg/L	1.0	106	83.5	118	0.760	10	
Xylenes, Total	66.20	µg/L	2.0	109	83.4	122	0.175	13	

Sample ID: 5ML RB

MBLK

Batch ID: R26481

Analysis Date: 12/11/2007 8:46:17 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: 5ML RB

MBLK

Batch ID: R26503

Analysis Date: 12/12/2007 9:08:08 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: R26481

Analysis Date: 12/11/2007 8:22:20 PM

Benzene	19.58	µg/L	1.0	97.9	85.9	113			
Toluene	19.63	µg/L	1.0	97.9	86.4	113			
Ethylbenzene	19.54	µg/L	1.0	97.7	83.5	118			
Xylenes, Total	58.92	µg/L	2.0	98.2	83.4	122			

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R26503

Analysis Date: 12/12/2007 8:19:11 PM

Benzene	20.43	µg/L	1.0	102	85.9	113			
Toluene	19.95	µg/L	1.0	99.0	86.4	113			
Ethylbenzene	19.88	µg/L	1.0	99.4	83.5	118			
Xylenes, Total	59.43	µg/L	2.0	99.0	83.4	122			

Sample ID: 0712139-02A MS

MS

Batch ID: R26481

Analysis Date: 12/11/2007 6:51:57 PM

Benzene	20.78	µg/L	1.0	104	85.9	113			
Toluene	21.00	µg/L	1.0	105	86.4	113			
Ethylbenzene	21.51	µg/L	1.0	105	83.5	118			
Xylenes, Total	66.08	µg/L	2.0	108	83.4	122			

Qualifiers:

E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name CYP

Date Received:

12/11/2007

Work Order Number 0712139

Received by: ARS

Checklist completed by:

Signature

Date

Sample ID labels checked by

Initials

Matrix

Carrier name Greyhound

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?

1°

<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 Engineering Services

Address: 7171 Hwy 6, North, Ste 102

Houston, TX 77055

Phone #: 281.797.3420

email or Fax#: 281.859.8881

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Timewestern Pipeline Co., WT-10244

Project #:

TWP WT-1 Derry Area

Project Manager:

George Robinson

Sampler: Sandy Sharp

Sample Temperature: _____

Date Time Sample Request ID

12/7/07 1600 MW-11

1605 MW-13

1430 MW-12

1455 MW-9

1545 SE-13

~~SE-14~~ SLS

Tryp Blank

Container Type and #

40ml vials x 3

✓

✓

✓

✓

2 x 40ml vials

✓

Preservative Type

HCL

✓

✓

✓

✓

HCL

✓

HEAL No.

0712139

1

2

3

4

5

✓

✓

Date: 12/8/07 Time: 1800

Relinquished by: Sandy Sharp

Relinquished by: _____

Received by: _____

9:25 12/11/07

Received by: _____

Remarks:

Analysis Request

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TMBs (8021)

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TPH Method 8015B (Gas/Diesel)

TPH Method 8015B (Gas/Diesel)

TPH Method 8015B (Gas/Diesel)

TPH Method 8015B (Gas/Diesel)

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Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

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Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

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