

**GW-109**

**AGWMR**

**6/29/2010**



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June 29, 2010

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  
Case # GW-109

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 (575) 625-8022.

Sincerely,

George C. Robinson, PE  
President/Principal Engineer

|                  |                |                               |
|------------------|----------------|-------------------------------|
| xc w/attachment: | Richard Spell  | Transwestern Pipeline Company |
|                  | Larry Campbell | Transwestern Pipeline Company |
|                  | Larry Johnson  | NMOCD Hobbs District Office   |

# **Report of Groundwater Remediation Activities**

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

**CASE # GW-109**

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

**February 28, 2010**

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**

One annual groundwater-sampling event has been completed since the last report of remediation activities. This event was completed on May 1, 2009.<sup>1</sup>

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 May 1, 2009 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 periodic occurrence of PSH at the water table in monitor well MW-10 and wells SVE-11, SVE-12, and SVE-14. On March 6, 2009, oil absorbant socks were placed in wells MW-10, SVE-11 and SVE-12 in an effort to remove accumulated PSH in the wells. The absorbant socks were changed out weekly over a period of the next four weeks and then removed from the wells on April 8, 2009. Three weeks later, on May 1, 2009, the wells were checked for the presence of PSH. Well MW-10 had an accumulated thickness of PSH of 0.02 feet; there was no indication of PSH in wells SVE-11 and SVE-12. On August 22, 2009, well MW-10 had an accumulated thickness of PSH of 0.02 feet; well SVE-12 had an accumulated thickness of PSH of 0.01 feet; and there was no indication of PSH in well SVE-11.

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 2009**

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

- 1) 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. The system operated from May 2, 2009 through November 14, 2009. Laboratory results for SVE system air samples collected on June 27, 2009 and August 22, 2009, indicate that the SVE system is removing natural gas condensate from the ground at an estimated rate of 170 gallons equivalent per month.

### **2.2 Remediation Activities Planned for January 2010 through December 2010**

The SVE system is scheduled to operate from May 2010 through October 2010.

## **3. Proposed Modifications**



### **3.1 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.

### **3.2 Reporting Frequency**

Annual reporting will continue with the next scheduled report being submitted to the OCD by February 28, 2011.

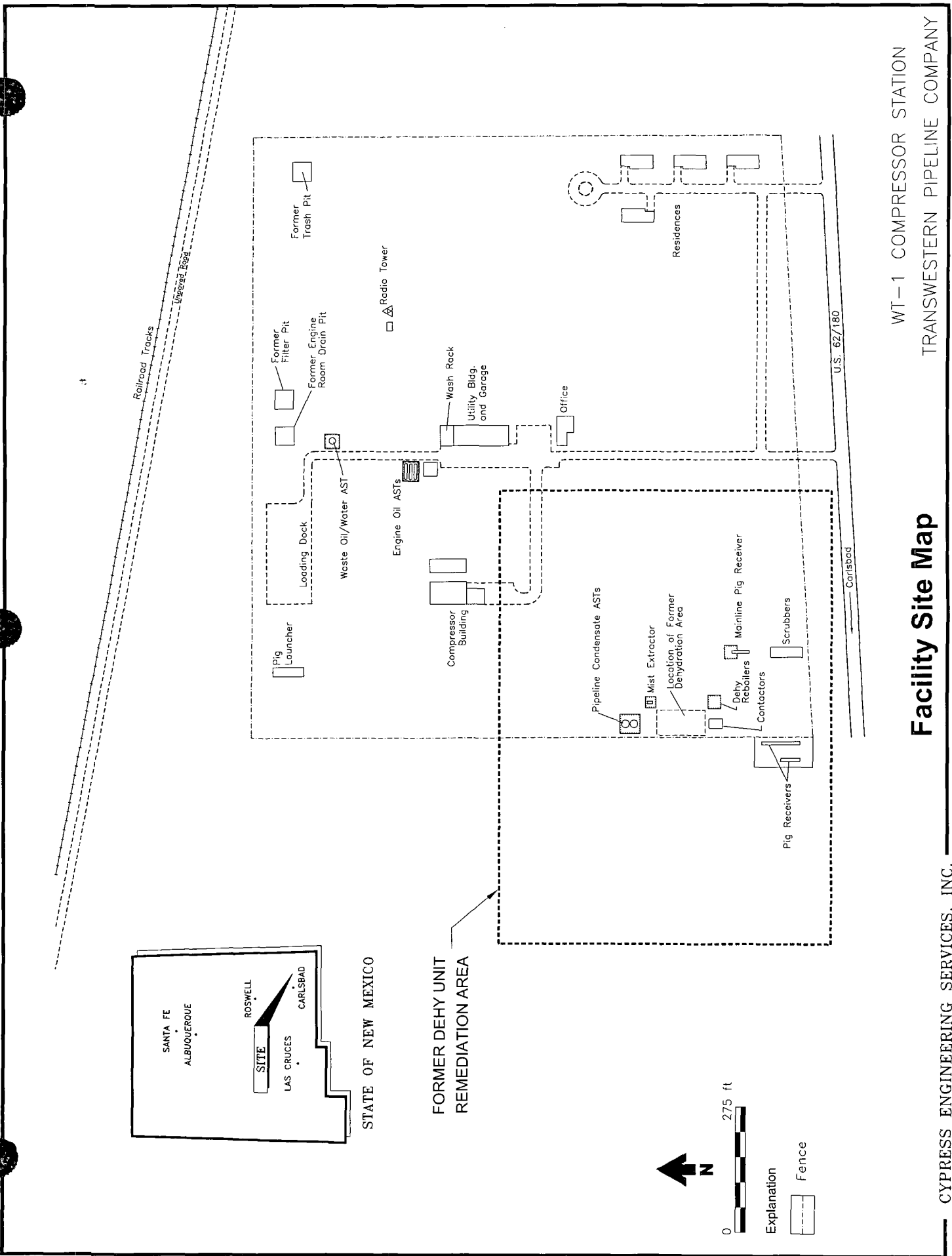


FIGURE 1

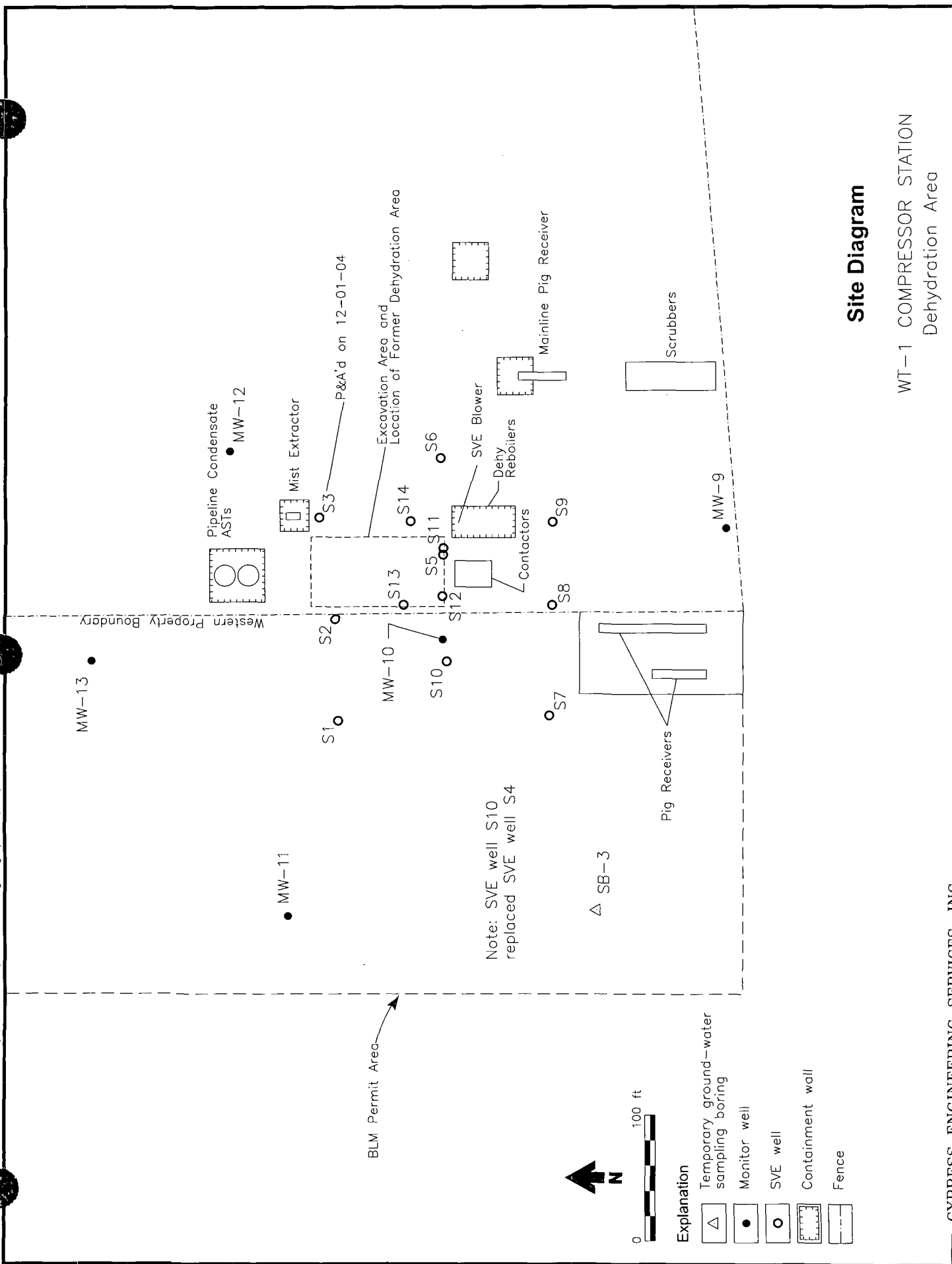


Figure 2

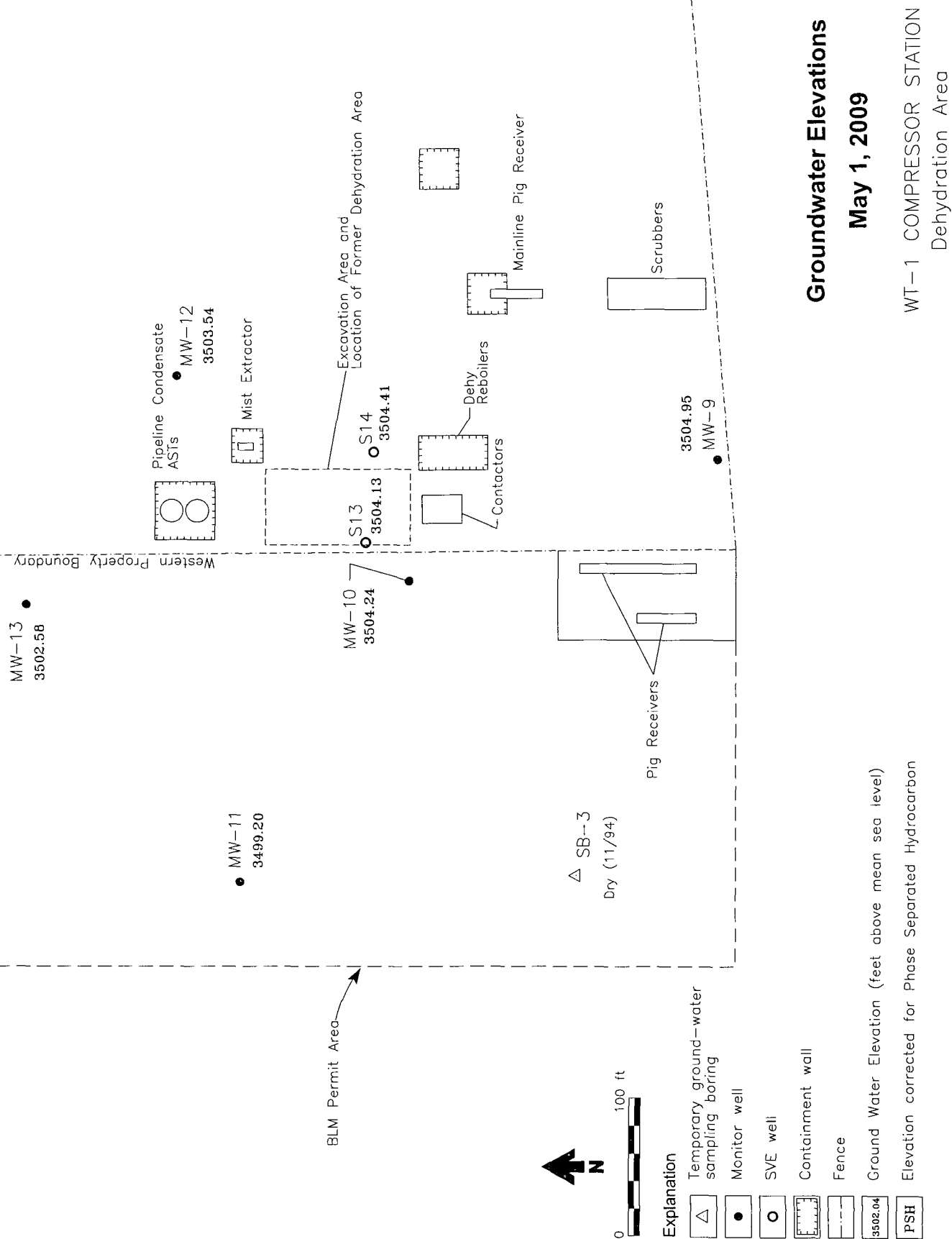
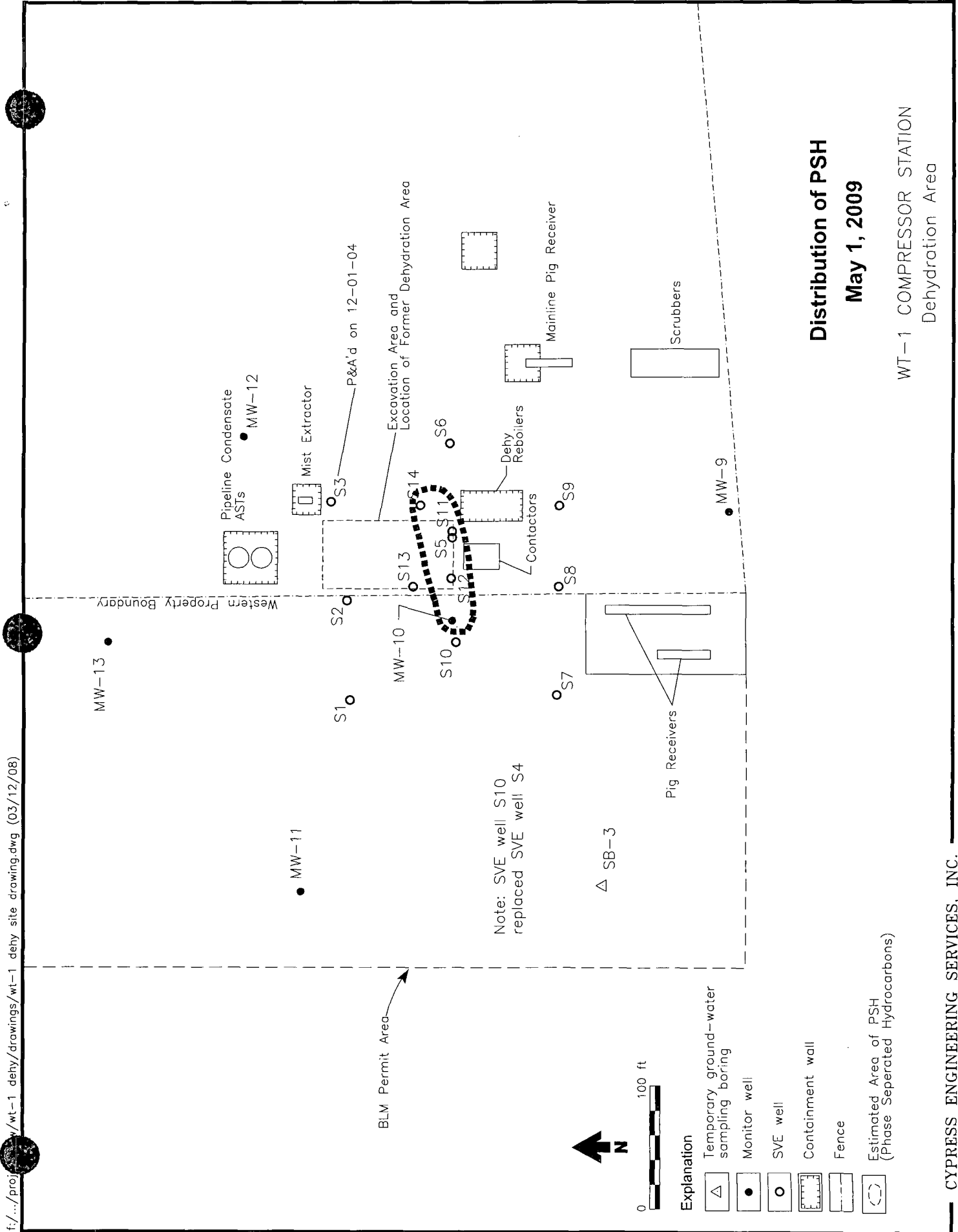


Figure 3



## Distribution of PSH

May 1, 2009

WT-1 COMPRESSOR STATION  
Dehydration Area

Estimated Area of PSH  
(Phase Separated Hydrocarbons)

Figure 4

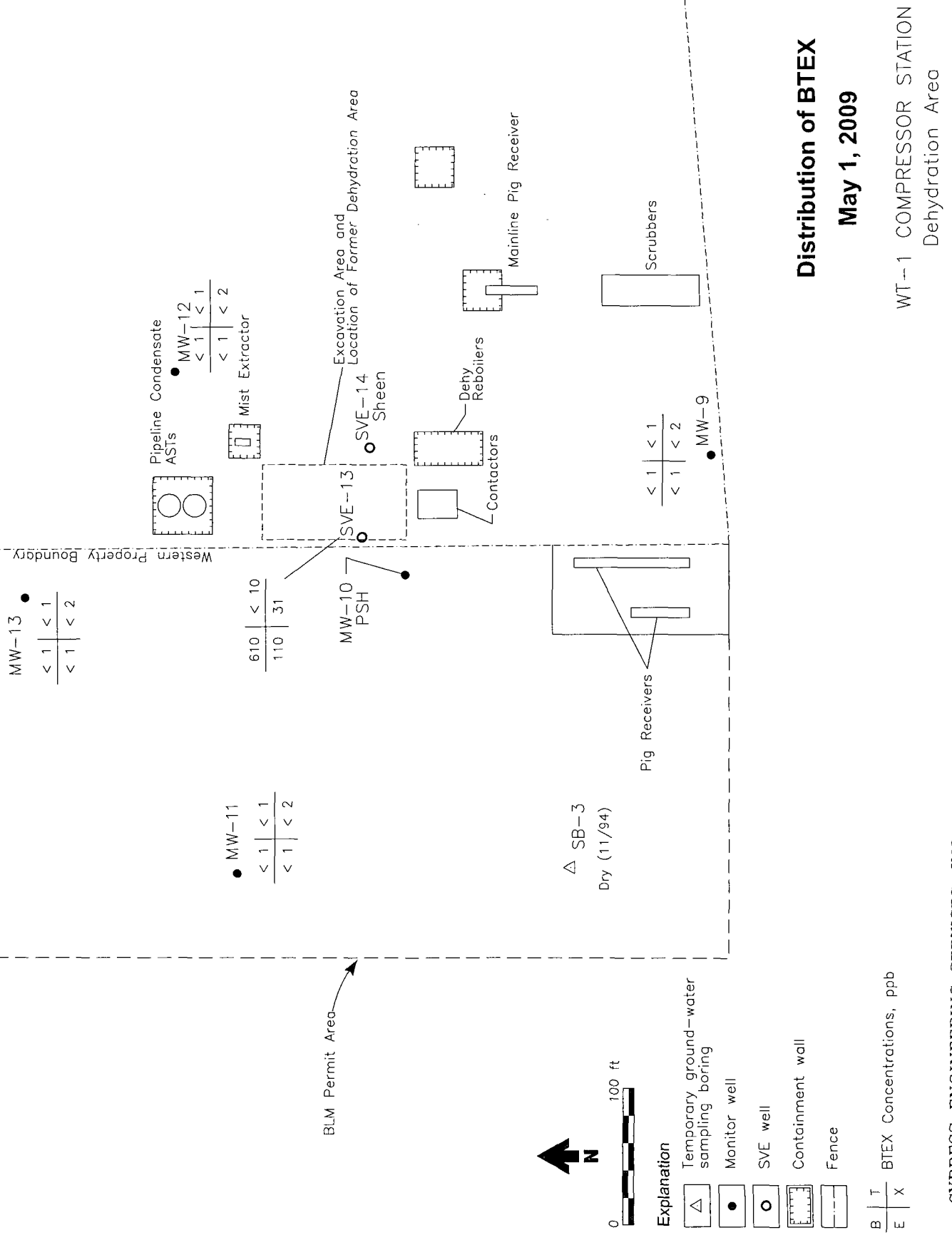


Figure 5

**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                |
|      | 05/30/08*     |                    | (a)               | 51.79               | (a)      | 3505.52                |
|      | 12/10/08*     |                    | (a)               | 52.32               | (a)      | 3504.99                |
|      | 05/01/09*     |                    | (a)               | 52.36               | (a)      | 3504.95                |

**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      |                    | 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*     | 3554.31 (c)        | 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                |
|      | 05/30/08*     |                    | 49.31             | 50.52               | 1.21     | 3504.76                |
|      | 12/10/08*     |                    | 49.74             | 50.89               | 1.15     | 3504.34                |
|      | 08/22/09*     |                    | 50.21             | 50.22               | 0.01     | 3504.10                |
|      | 05/01/09*     |                    | 50.07             | 50.09               | 0.02     | 3504.24                |

**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                |
|       | 05/30/08*     |                    | (a)               | 49.15               | (a)      | 3498.69                |
|       | 12/10/08*     |                    | (a)               | 49.01               | (a)      | 3498.83                |
|       | 05/01/09*     |                    | (a)               | 48.64               | (a)      | 3499.20                |

**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                |
|       | 05/30/08*     |                    | (a)               | 47.55               | (a)      | 3503.64                |
|       | 12/10/08*     |                    | (a)               | 47.78               | (a)      | 3503.41                |
|       | 05/01/09*     |                    | (a)               | 47.65               | (a)      | 3503.54                |

**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                |
|       | 05/30/08*     |                    | (a)               | 45.02               | (a)      | 3502.76                |
|       | 12/10/08*     |                    | (a)               | 45.18               | (a)      | 3502.60                |
|       | 05/01/09*     |                    | (a)               | 45.20               | (a)      | 3502.58                |

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                |
|       | 05/30/08*     |                    | (a)               | 48.42               | (a)      | 3502.80                |
|       | 12/10/08*     |                    | (a)               | 48.43               | (a)      | 3502.79                |
|       | 05/01/09*     |                    | (a)               | 48.24               | (a)      | 3502.98                |
| 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                |
|       | 05/30/08*     |                    | (a)               | 47.40               | (a)      | 3504.56                |
|       | 12/10/08*     |                    | (a)               | 47.84               | (a)      | 3504.12                |
|       | 05/01/09*     |                    | (a)               | 47.92               | (a)      | 3504.04                |

**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             |                     | 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                |
|       | 05/30/08*     |                    | (a)               | 47.98               | (a)      | 3506.41                |
|       | 12/10/08*     |                    | (a)               | 48.73               | (a)      | 3505.66                |
|       | 05/01/09*     |                    | (a)               | 49.66               | (a)      | 3504.73                |

**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                |
|       | 05/30/08*     |                    | (a)               | 48.32               | (a)      | 3505.42                |
|       | 12/10/08*     |                    | (a)               | 48.81               | (a)      | 3504.93                |
|       | 05/01/09*     |                    | (a)               | 48.79               | (a)      | 3504.95                |
| 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                |
|       | 05/30/08*     |                    | (a)               | 49.45               | (a)      | 3504.36                |
|       | 12/10/08*     |                    | (a)               | 49.71               | (a)      | 3504.10                |
|       | 05/01/09*     |                    | (a)               | 49.65               | (a)      | 3504.16                |

**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                |
|       | 05/30/08*     |                    | (a)               | 50.12               | (a)      | 3505.13                |
|       | 12/10/08*     |                    | (a)               | 50.58               | (a)      | 3504.67                |
|       | 05/01/09*     |                    | (a)               | 50.63               | (a)      | 3504.62                |
| 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                |
|       | 05/30/08*     |                    | (a)               | 50.00               | (a)      | 3505.36                |
|       | 12/10/08*     |                    | (a)               | 50.46               | (a)      | 3504.90                |
|       | 05/01/09*     |                    | (a)               | 50.48               | (a)      | 3504.88                |

**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     | 3499.83                |
|        | 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                |
|        | 05/30/08*     |                    | (a)               | 49.82               | (a)      | 3504.58                |
|        | 12/10/08*     |                    | (a)               | 50.12               | (a)      | 3504.28                |
|        | 05/01/09*     |                    | (a)               | 50.23               | (a)      | 3504.17                |

**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                |
|        | 05/30/08*     |                    | 50.09             | 52.35               | 2.26     | 3504.79                |
|        | 12/10/08*     |                    | 50.58             | 52.72               | 2.14     | 3504.32                |
|        | 08/22/09*     |                    | (a)               | 51.60               | (a)      | 3503.73                |
|        | 05/01/09*     |                    | (a)               | 51.08               | (a)      | 3504.25                |

**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)      | 3501.06                |
|        | 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                |
|        | 05/30/08*     |                    | 50.65             | 51.75               | 1.10     | 3504.77                |
|        | 12/10/08*     |                    | 51.11             | 52.34               | 1.23     | 3504.28                |
|        | 08/22/09*     |                    | 51.58             | 51.60               | 0.02     | 3504.06                |
|        | 05/01/09*     |                    | (a)               | 51.53               | (a)      | 3504.11                |

**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                |
|        | 05/30/08*     |                    | (a)               | 49.38               | (a)      | 3504.73                |
|        | 12/10/08*     |                    | (a)               | 49.86               | (a)      | 3504.25                |
|        | 05/01/09*     |                    | (a)               | 49.98               | (a)      | 3504.13                |

**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                |
|        | 05/30/08*     |                    | Sheen             | 49.92               | (a)      | 3504.91                |
|        | 12/10/08*     |                    | Sheen             | 50.34               | (a)      | 3504.49                |
|        | 05/01/09*     |                    | Sheen             | 50.42               | (a)      | 3504.41                |

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           |     |
|                 | 05/30/08      | 4.1                       | 7.38       | 21.7      | 4,002                | < 1                         | < 1     | < 1          | < 2           |     |
|                 | 12/11/08      | 4.6                       | 6.95       | 20.2      | 3,633                | < 1                         | < 1     | < 1          | < 2           |     |
|                 | 04/27/09      | 5.6                       | 6.48       | 20.9      | 4,491                | < 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         | < 1    |
|                 | 02/17/01      |                           | -          | -         | -                    | -                           | < 0.500 | < 0.500      | < 0.500       | < 0.10 |
|                 | 08/15/01      |                           | 6.0        | 7.20      | 20.3                 | 1,932                       | < 1     | < 1          | < 1           | < 2    |
|                 | 02/27/02      |                           | 6.3        | 7.38      | 21.6                 | 2,020                       | < 1     | < 1          | < 1           | < 1    |
|                 | 08/01/02      |                           | 7.9        | 6.87      | 23.5                 | 1,700                       | < 0.50  | < 0.50       | < 0.50        | < 0.50 |
|                 | 02/13/03      |                           | 6.1        | 7.41      | 22.3                 | 1,960                       | < 0.50  | < 0.50       | < 0.50        | < 0.50 |
|                 | 08/05/03      |                           | 5.0        | 7.47      | 22.7                 | 1,660                       | < 0.50  | < 0.50       | < 0.50        | < 0.50 |
|                 | 05/24/04      |                           | 5.1        | 7.46      | 21.9                 | 1,780                       | < 0.50  | < 0.50       | < 0.50        | < 0.50 |
|                 | 11/09/04*     |                           | 5.8        | 7.14      | 20.2                 | 1,775                       | < 0.50  | < 0.50       | < 0.50        | < 0.50 |
|                 | 04/11/05      |                           | -          | -         | -                    | -                           | < 0.50  | < 0.50       | < 0.50        | < 0.50 |
|                 | 12/01/05      |                           | 5.8        | 7.46      | 19.5                 | 1,456                       | < 0.50  | < 0.50       | < 0.50        | < 0.50 |
|                 | 05/10/06      |                           | 7.3        | 7.36      | 20.1                 | 1,481                       | < 1     | < 1          | < 1           | < 3    |
|                 | 12/14/06      |                           | 7.3        | 7.28      | 20.0                 | 1,374                       | < 1     | < 1          | < 1           | < 3    |
|                 | 06/21/07      |                           | 7.4        | 6.99      | 20.3                 | 1,322                       | < 1     | < 1          | < 1           | < 2    |
|                 | 12/07/07      |                           | 6.7        | 7.26      | 20.0                 | 1,216                       | < 1     | < 1          | < 1           | < 2    |
|                 | 05/30/08      |                           | 7.0        | 6.92      | 21.1                 | 1,636                       | < 1     | < 1          | < 1           | < 2    |
|                 | 12/11/08      |                           | 6.2        | 7.24      | 19.4                 | 1,648                       | < 1     | < 1          | < 1           | < 2    |
|                 | 04/27/09      |                           | 6.8        | 6.84      | 20.3                 | 2,195                       | < 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-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           |     |
|                 | 05/30/08      | 6.3                       | 6.59       | 21.8      | 3,106                | < 1                         | < 1     | < 1          | < 2           |     |
|                 | 12/11/08      | 3.5                       | 6.87       | 19.5      | 2,645                | < 1                         | < 1     | < 1          | < 2           |     |
|                 | 04/27/09      | 4.7                       | 6.44       | 20.5      | 3,244                | < 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           |     |
|                 | 05/30/08      | 1.6                       | 7.49       | 20.9      | 3,424                | < 1                         | < 1     | < 1          | < 2           |     |
|                 | 12/11/08      | 1.0                       | 6.84       | 19.3      | 2,994                | < 1                         | < 1     | < 1          | < 2           |     |
|                 | 04/27/09      | 3.5                       | 6.40       | 20.5      | 3,758                | < 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            |
|                 | 05/30/08      |                           | -          | -         | -                    | 280                         | 2.8     | 33           | 75            |
|                 | 12/11/08      |                           | -          | -         | -                    | 510                         | < 10    | 97           | 30            |
|                 | 04/27/09      |                           | -          | -         | -                    | 610                         | < 10    | 110          | 31            |

**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<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|---------------|-------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|               |             | (ug/L)                 | (ppmv) <sup>(c)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| 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  |
|               | 07/01/08(d) | 1,400                  | 348                   | 0.8  | 2.9   | 8.3   | 21.6  | 28.9  | 22.7   | 13.1    | 1.7     | 0.0     | 0.0  |
| (dup)         | 07/01/08(d) | 1,370                  | 340                   | 0.7  | 2.9   | 8.2   | 20.8  | 26.8  | 25.4   | 13.2    | 2.0     | 0.0     | 0.0  |
|               | 06/27/09(d) | 2,090                  | 519                   | --   | 2.8   | 11.8  | 37.7  | 24.0  | 15.4   | 6.1     | 1.7     | 0.5     | 0.0  |
| (dup)         | 06/27/09(d) | 1,820                  | 452                   | --   | 3.0   | 14.5  | 38.4  | 23.2  | 14.0   | 5.0     | 1.3     | 0.6     | 0.0  |
|               | 08/22/09(d) | 1,940                  | 482                   | --   | 2.6   | 15.6  | 32.9  | 27.6  | 16.3   | 4.0     | 0.7     | 0.1     | 0.2  |
| (dup)         | 08/22/09(d) | 1,790                  | 445                   | --   | 4.6   | 15.4  | 32.4  | 26.7  | 15.8   | 4.0     | 0.7     | 0.2     | 0.2  |

Notes:

(a) All air samples analyzed by Hall Laboratory of Albuquerque, NM

(b) PID = Photoionization detector

(c) Conversion Factor:

$$P = 0.88 \text{ atm, MW} = 110 \text{ g/mole, } R = 0.08205 \text{ L} \cdot \text{atm}/(\text{K} \cdot \text{mole}), T = 2930\text{K}$$

$$C \text{ ppmv} = C \text{ ug/L} \cdot ((R \cdot T)/(\text{MW} \cdot P))$$

$$C \text{ ppmv} = C \text{ ug/L} \cdot 0.2484$$

(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 <sup>a</sup> | 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<br>for Annual Event | Benzene (ppb)<br>Latest Result | Comments                    |
|---------------------------------------------------------------------------------|---------------------------------------------|--------------------------------|-----------------------------|
| MW-9                                                                            | BTEX                                        | < 1                            |                             |
| MW-10                                                                           | BTEX                                        | na                             | contains PSH                |
| MW-11                                                                           | BTEX                                        | < 1                            | clean downgradient well     |
| MW-12                                                                           | BTEX                                        | < 1                            | clean downgradient well     |
| MW-13                                                                           | BTEX                                        | < 1                            | clean downgradient well     |
| SVE-13                                                                          | BTEX                                        | 510                            |                             |
| SVE-14                                                                          | BTEX                                        | na                             | contains PSH intermittently |
| Notes:<br>1) na - not available<br>2) BTEX - BTEX Compounds by EPA Method 8021B |                                             |                                |                             |



## COVER LETTER

Tuesday, July 07, 2009

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.: 0907016

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 7/1/2009 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](http://www.hallenvironmental.com) or the state specific web sites.

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  
Texas Lab# T104704424-08-TX



## Hall Environmental Analysis Laboratory, Inc.

Date: 07-Jul-09

CLIENT: Cypress Engineering  
Project: TWP WT-1 DEHY

Lab Order: 0907016

Lab ID: 0907016-01

Collection Date: 6/27/2009 8:30:00 AM

Client Sample ID: SVE Total

Matrix: AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB        |
| Gasoline Range Organics (GRO)           | 2090   | 125      |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C05-C6              | 2.80   | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C06-C7              | 11.8   | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C07-C8              | 37.7   | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C08-C9              | 24.0   | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C09-C10             | 15.4   | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C10-C11             | 6.10   | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C11-C12             | 1.70   | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C12-C14             | 0.500  | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 25 | 7/2/2009 1:41:30 PM |
| Surr: BFB                               | 221    | 76.8-150 | S    | %REC  | 25 | 7/2/2009 1:41:30 PM |

Lab ID: 0907016-02

Collection Date: 6/27/2009 8:30:00 AM

Client Sample ID: SVE North

Matrix: AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB        |
| Gasoline Range Organics (GRO)           | 1820   | 125      |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C05-C6              | 3.00   | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C06-C7              | 14.5   | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C07-C8              | 38.4   | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C08-C9              | 23.2   | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C09-C10             | 14.0   | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C10-C11             | 5.00   | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C11-C12             | 1.30   | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C12-C14             | 0.600  | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 25 | 7/2/2009 2:10:41 PM |
| Surr: BFB                               | 189    | 76.8-150 | S    | %REC  | 25 | 7/2/2009 2:10:41 PM |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
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: 0907016

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB

MBLK

Batch ID: R34371 Analysis Date: 7/2/2009 9:12:19 AM

Gasoline Range Organics (GRO)

ND

mg/L

0.050

Sample ID: b 56

MBLK

Batch ID: R34371 Analysis Date: 7/3/2009 1:19:51 PM

Gasoline Range Organics (GRO)

ND

mg/L

0.050

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: R34371 Analysis Date: 7/2/2009 8:57:55 PM

Gasoline Range Organics (GRO)

0.5252

mg/L

0.050

105

80

115

Sample ID: 2.5UG GRO LCS-II

LCS

Batch ID: R34371 Analysis Date: 7/3/2009 2:51:00 PM

Gasoline Range Organics (GRO)

0.4806

mg/L

0.050

96.1

80

115

## Qualifiers:

E Estimated value

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:

7/1/2009

Work Order Number 0907016

Received by: AT

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name FedEx

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

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 \_\_\_\_\_

☒ Standard ☐ Rush

Project Name: Transwestern Pipeline @  
WT-1 Deck

Houston TX 77095  
Phone #: 281-797-3421  
email or Fax#: 281-859-1881

☐ Level 4 (Full Validation)

| Date    | Time  | Matrix | Sample Request ID |
|---------|-------|--------|-------------------|
| 6/27/09 | 8:30  | Air    | SVE Total         |
| 6/27/09 | 8:30m | ↓      | SVE North         |

# HEAVEN

|        |   |          |
|--------|---|----------|
| Letter | 0 | 01010101 |
| TEXAR  | 4 | 01010101 |

|       |        |       |         |                  |                    |              |                    |       |          |       |      |
|-------|--------|-------|---------|------------------|--------------------|--------------|--------------------|-------|----------|-------|------|
| Date: | 9/9/09 | Time: | 1000 AM | Relinquished by: | <i>[Signature]</i> | Received by: | <i>[Signature]</i> | Date: | 07/10/09 | Time: | 1030 |
| Date: |        | Time: |         | Relinquished by: |                    | Received by: |                    | Date: |          | Time: |      |

|          |  |
|----------|--|
| Remarks: |  |
|----------|--|

[www.hallenvironmental.com](http://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/Lessel) <del>X</del>                                  |
| TPH (Method 418.1)                                                          |
| EDB (Method 504.1)                                                          |
| 8310 (PNA or PAH)                                                           |
| RCRA 8 Metals                                                               |
| Anions ( $F^-$ , $Cl^-$ , $NO_3^-$ , $NO_2^-$ , $PO_4^{3-}$ , $SO_4^{2-}$ ) |
| 8081 Pesticides / 8082 PCB's                                                |
| 8260B (VOA)                                                                 |
| 8270 (Semi-VOA)                                                             |
|                                                                             |
|                                                                             |
| Air Bubbles (Y or N)                                                        |

|          |  |
|----------|--|
| Remarks: |  |
|----------|--|

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.

## COVER LETTER

Monday, August 31, 2009

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

TEL: (281) 797-3420

FAX (281) 859-1881

RE: Transwestern Pipeline WT-1 DEHY

Order No.: 0908464

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 8/27/2009 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](http://www.hallenvironmental.com) or the state specific web sites.

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, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 31-Aug-09

**CLIENT:** Cypress Engineering  
**Project:** Transwestern Pipeline WT-1 DEHY**Lab Order:** 0908464**Lab ID:** 0908464-01**Collection Date:** 8/22/2009 7:55:00 PM**Client Sample ID:** SVE Total**Matrix:** AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 1940   | 125      |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C05-C6              | 2.60   | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C06-C7              | 15.6   | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C07-C8              | 32.9   | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C08-C9              | 27.6   | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C09-C10             | 16.3   | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C10-C11             | 4.00   | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C11-C12             | 0.700  | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| % GRO Hydrocarbons: C14+                | 0.200  | 0        |      | µg/L  | 25 | 8/28/2009 2:19:02 PM |
| Surr: BFB                               | 93.1   | 76.8-150 |      | %REC  | 25 | 8/28/2009 2:19:02 PM |

**Lab ID:** 0908464-02**Collection Date:** 8/22/2009 7:55:00 PM**Client Sample ID:** SVE North**Matrix:** AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 1790   | 125      |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C05-C6              | 4.60   | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C06-C7              | 15.4   | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C07-C8              | 32.4   | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C08-C9              | 26.7   | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C09-C10             | 15.8   | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C10-C11             | 4.00   | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C11-C12             | 0.700  | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C12-C14             | 0.200  | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| % GRO Hydrocarbons: C14+                | 0.200  | 0        |      | µg/L  | 25 | 8/28/2009 2:48:21 PM |
| Surr: BFB                               | 88.4   | 76.8-150 |      | %REC  | 25 | 8/28/2009 2:48:21 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- 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: Transwestern Pipeline WT-1 DEHY

Work Order: 0908464

| Analyte | Result | Units | PQL | SPK Va | SPK ref | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|

Method: EPA Method 8015B: Gasoline Range

|                               |        |      |       |     |   |      |    |     |      |      |  |
|-------------------------------|--------|------|-------|-----|---|------|----|-----|------|------|--|
| Sample ID: b 9                |        | MBLK |       |     |   |      |    |     |      |      |  |
| Gasoline Range Organics (GRO) | ND     | mg/L | 0.050 |     |   |      |    |     |      |      |  |
| Sample ID: b 48               |        | MBLK |       |     |   |      |    |     |      |      |  |
| Gasoline Range Organics (GRO) | ND     | mg/L | 0.050 |     |   |      |    |     |      |      |  |
| Sample ID: 2.5UG GRO LCS      |        | LCS  |       |     |   |      |    |     |      |      |  |
| Gasoline Range Organics (GRO) | 0.4922 | mg/L | 0.050 | 0.5 | 0 | 98.4 | 80 | 115 |      |      |  |
| Sample ID: 2.5UG GRO LCS-II   |        | LCS  |       |     |   |      |    |     |      |      |  |
| Gasoline Range Organics (GRO) | 0.4696 | mg/L | 0.050 | 0.5 | 0 | 93.9 | 80 | 115 |      |      |  |
| Sample ID: 2.5UG GRO LCSD     |        | LCSD |       |     |   |      |    |     |      |      |  |
| Gasoline Range Organics (GRO) | 0.4630 | mg/L | 0.050 | 0.5 | 0 | 92.6 | 80 | 115 | 6.11 | 8.39 |  |

## Qualifiers:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | 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  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name **CYP**

Work Order Number **0908464**

Date Received:

**8/27/2009**

Received by: **ARS**

Sample ID labels checked by:

Initials **KS**

Checklist completed by:

Signature

Date

Matrix:

Carrier name: **FedEx**

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





## COVER LETTER

Monday, May 11, 2009

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 Station DEHY

Order No.: 0904439

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 4/29/2009 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](http://www.hallenvironmental.com) or the state specific web sites.

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  
Texas Lab# T104704424-08-TX



## Hall Environmental Analysis Laboratory, Inc.

Date: 11-May-09

CLIENT: Cypress Engineering  
Project: TWP WT-1 Station DEHY

Lab Order: 0904439

Lab ID: 0904439-01

Collection Date: 4/27/2009 4:35:00 PM

Client Sample ID: MW-12

Matrix: AQUEOUS

| Analyses                    | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8021B: VOLATILES |        |          |      |       |    | Analyst: DAM        |
| Benzene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 2:11:36 PM |
| Toluene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 2:11:36 PM |
| Ethylbenzene                | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 2:11:36 PM |
| Xylenes, Total              | ND     | 2.0      |      | µg/L  | 1  | 5/5/2009 2:11:36 PM |
| Surr: 4-Bromofluorobenzene  | 90.3   | 65.9-130 |      | %REC  | 1  | 5/5/2009 2:11:36 PM |

Lab ID: 0904439-02

Collection Date: 4/27/2009 3:40:00 PM

Client Sample ID: MW-9

Matrix: AQUEOUS

| Analyses                    | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8021B: VOLATILES |        |          |      |       |    | Analyst: DAM        |
| Benzene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 2:42:19 PM |
| Toluene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 2:42:19 PM |
| Ethylbenzene                | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 2:42:19 PM |
| Xylenes, Total              | ND     | 2.0      |      | µg/L  | 1  | 5/5/2009 2:42:19 PM |
| Surr: 4-Bromofluorobenzene  | 76.6   | 65.9-130 |      | %REC  | 1  | 5/5/2009 2:42:19 PM |

Lab ID: 0904439-03

Collection Date: 4/27/2009 5:25:00 PM

Client Sample ID: MW-11

Matrix: AQUEOUS

| Analyses                    | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8021B: VOLATILES |        |          |      |       |    | Analyst: DAM        |
| Benzene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 3:13:03 PM |
| Toluene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 3:13:03 PM |
| Ethylbenzene                | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 3:13:03 PM |
| Xylenes, Total              | ND     | 2.0      |      | µg/L  | 1  | 5/5/2009 3:13:03 PM |
| Surr: 4-Bromofluorobenzene  | 87.0   | 65.9-130 |      | %REC  | 1  | 5/5/2009 3:13:03 PM |

Lab ID: 0904439-04

Collection Date: 4/27/2009 5:35:00 PM

Client Sample ID: MW-13

Matrix: AQUEOUS

| Analyses                    | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8021B: VOLATILES |        |          |      |       |    | Analyst: DAM        |
| Benzene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 3:43:45 PM |
| Toluene                     | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 3:43:45 PM |
| Ethylbenzene                | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 3:43:45 PM |
| Xylenes, Total              | ND     | 2.0      |      | µg/L  | 1  | 5/5/2009 3:43:45 PM |
| Surr: 4-Bromofluorobenzene  | 98.0   | 65.9-130 |      | %REC  | 1  | 5/5/2009 3:43:45 PM |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
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: 11-May-09

**CLIENT:** Cypress Engineering  
**Project:** TWP WT-1 Station DEHY**Lab Order:** 0904439**Lab ID:** 0904439-05**Collection Date:** 4/27/2009 4:55:00 PM**Client Sample ID:** SVE-13**Matrix:** AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: DAM        |
| Benzene                            | 610    | 10       |      | µg/L  | 10 | 5/5/2009 4:14:28 PM |
| Toluene                            | ND     | 10       |      | µg/L  | 10 | 5/5/2009 4:14:28 PM |
| Ethylbenzene                       | 110    | 10       |      | µg/L  | 10 | 5/5/2009 4:14:28 PM |
| Xylenes, Total                     | 31     | 20       |      | µg/L  | 10 | 5/5/2009 4:14:28 PM |
| Surr: 4-Bromofluorobenzene         | 100    | 65.9-130 |      | %REC  | 10 | 5/5/2009 4:14:28 PM |

**Lab ID:** 0904439-06**Collection Date:****Client Sample ID:** TRIP BLANK**Matrix:** TRIP BLANK

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: DAM        |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 5:15:51 PM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 5:15:51 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 5/5/2009 5:15:51 PM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 5/5/2009 5:15:51 PM |
| Surr: 4-Bromofluorobenzene         | 92.3   | 65.9-130 |      | %REC  | 1  | 5/5/2009 5:15:51 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- 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 Station DEHY

Work Order: 0904439

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

Method: EPA Method 8021B: Volatiles

Sample ID: 0904439-01A MSD

MSD

Batch ID: R33544

Analysis Date: 5/5/2009 7:18:26 PM

|                |       |      |     |     |      |     |      |    |  |
|----------------|-------|------|-----|-----|------|-----|------|----|--|
| Benzene        | 20.66 | µg/L | 1.0 | 103 | 85.9 | 113 | 4.36 | 27 |  |
| Toluene        | 20.78 | µg/L | 1.0 | 102 | 86.4 | 113 | 4.95 | 19 |  |
| Ethylbenzene   | 21.25 | µg/L | 1.0 | 106 | 83.5 | 118 | 4.15 | 10 |  |
| Xylenes, Total | 61.69 | µg/L | 2.0 | 103 | 83.4 | 122 | 4.57 | 13 |  |

Sample ID: b 1

MBLK

Batch ID: R33544

Analysis Date: 5/5/2009 9:53:27 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: R33544

Analysis Date: 5/5/2009 8:20:21 PM

|                |       |      |     |     |      |     |  |  |  |
|----------------|-------|------|-----|-----|------|-----|--|--|--|
| Benzene        | 21.07 | µg/L | 1.0 | 105 | 85.9 | 113 |  |  |  |
| Toluene        | 21.37 | µg/L | 1.0 | 107 | 86.4 | 113 |  |  |  |
| Ethylbenzene   | 21.56 | µg/L | 1.0 | 108 | 83.5 | 118 |  |  |  |
| Xylenes, Total | 62.35 | µg/L | 2.0 | 104 | 83.4 | 122 |  |  |  |

Sample ID: 0904439-01A MS

MS

Batch ID: R33544

Analysis Date: 5/5/2009 6:47:54 PM

|                |       |      |     |     |      |     |  |  |  |
|----------------|-------|------|-----|-----|------|-----|--|--|--|
| Benzene        | 21.58 | µg/L | 1.0 | 108 | 85.9 | 113 |  |  |  |
| Toluene        | 21.84 | µg/L | 1.0 | 108 | 86.4 | 113 |  |  |  |
| Ethylbenzene   | 22.15 | µg/L | 1.0 | 111 | 83.5 | 118 |  |  |  |
| Xylenes, Total | 64.57 | µg/L | 2.0 | 108 | 83.4 | 122 |  |  |  |

## Qualifiers:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | 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  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.



## Sample Receipt Checklist

Client Name CYP

Date Received:

4/29/2009

Work Order Number 0904439

Received by: TLS

Checklist completed by:

Signature

4/29/09

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

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

Container/Temp Blank temperature?

3°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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

| Well          | Source <sup>a</sup> | 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 Drig/DBS      | 11/18/94           | 3557.31 (b)                    | -1209.40      | -1254.20     | 60.5                           | na                                   | Flush Mount             | 2                     | 44-59                    | 40.5                      |
| MW-10         | Eades Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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<br>for Annual Event | Benzene (ppb)<br>Latest Result | Comments                    |
|---------------------------------------------------------------------------------|---------------------------------------------|--------------------------------|-----------------------------|
| MW-9                                                                            | BTEX                                        | < 1                            |                             |
| MW-10                                                                           | BTEX                                        | na                             | contains PSH                |
| MW-11                                                                           | BTEX                                        | < 1                            | clean downgradient well     |
| MW-12                                                                           | BTEX                                        | < 1                            | clean downgradient well     |
| MW-13                                                                           | BTEX                                        | < 1                            | clean downgradient well     |
| SVE-13                                                                          | BTEX                                        | 510                            |                             |
| SVE-14                                                                          | BTEX                                        | na                             | contains PSH intermittently |
| Notes:<br>1) na - not available<br>2) BTEX - BTEX Compounds by EPA Method 8021B |                                             |                                |                             |