1RP-156

2nd QTR 2010 GW monitoring Report

DATE:
Jan. 4, 2011

370 17th Street, Suite 2500
Denver, Colorado 80202
303-605-1893 – main
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January 4, 2011

Mr. Leonard Lowe
Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: 2nd 2010 Semi Annual Groundwater Monitoring Report
DCP Monument Booster Station (1RP-156-0)
Unit B Section 33, Township 19 South, Range 37 East

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the 2nd 2010 Semi Annual Groundwater Monitoring Report for the DCP Monument Booster Station located in Lea County, New Mexico (Unit B Section 33, Township 19 South, Range 37 East).

Groundwater monitoring activities were completed on September 28 and 29, 2010. The data indicate that the groundwater conditions remain stable. The next semi-annual monitoring event is scheduled for the first half of 2011.

If you have any questions regarding the report, please call at 303-605-1695 or e-mail me CECole@dcpmidstream.com .

Sincerely,

DCP Midstream, LP

Chandler E Cole.
Senior Environmental Specialist

Enclosure

cc: Larry Johnson – OCD District Office, Hobbs
Environmental Files

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

November 22, 2010

Mr. Chandler Cole
DCP Midstream, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Subject: Summary of the Second 2010 Semi-Annual Groundwater Monitoring Event, Monument Booster Station, Lea County, New Mexico (**1RP-156-0**)
Unit B, Section 33, Township 19 South, Range 37 East

Dear Chandler:

This letter summarizes the activities completed and data generated and also provides recommendations and conclusions for the second 2010 semiannual groundwater sampling event that was completed at the DCP Midstream, LP Monument Booster Station facility in Lea County New Mexico. The activities were completed on September 16, 2010. They included the measurement of fluid levels and the sampling of all wells that did not contain measurable free phase hydrocarbons (FPH).

SITE SETTING AND SAMPLING PROTOCOL

The facility is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 33, Township 19 South, Range 37 East (Figure 1). The coordinates are 32.6240 degrees north 103.2555 degrees west. This active facility is used for gas compression as well as other activities. DCP owns additional property to the south and east of the facility boundaries (Figure 2).

The eight monitoring wells that are at the site are shown on Figure 2. Construction information is included in Table 1.

Depths to groundwater and, if present, free phase hydrocarbons (FPH) were measured in each well prior to purging. Wells MW-1 and MW-5 contained FPH so they were not sampled.

The remaining six wells were purged and sampled. Each well was purged using dedicated bailers until a minimum of three casing volumes of water was removed and the field parameters temperature, pH and conductivity had stabilized. Some wells were bailed down and allowed to recover because they do not produce sufficient water for sustained bailing. The well purging forms are attached. The affected purge water was disposed of at the DCP Linam Ranch facility.

Unfiltered samples were collected following purging using the same dedicated bailers. All of the samples were placed in an ice-filled chest immediately upon collection and delivered to the analytical laboratory using standard chain-of-custody protocols. The samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method SW846 8260.

HYDRAULIC RESULTS

The corrected groundwater elevations are shown on Table 2. The water-table elevations for the wells containing FPH were adjusted using the following formula:

$GWE_{corr} = MGWE + (PT*PD)$: where

- MGWE is the actual measured groundwater elevation;
- PT is the measured free-phase hydrocarbon thickness; and
- PD is the free phase hydrocarbon density (assumed 0.75).

Hydrographs for select wells throughout the study area are included in Figure 3. These hydrographs show that the water table rose approximately 1.5 feet across the site. This rise resulted from heavy rains in the early summer of 2010.

The FPH thickness measurements over the duration of the project are summarized in Table 3. The FPH thicknesses decreased substantially in MW-1 and remained essentially unchanged in MW-5 (Figure 4).

A water-table contour map that was generated using the program Surfer with the kriging option is included as Figure 5. The groundwater flow maintained its historic direction toward the south-southeast. The groundwater flow direction is also toward and then across the low-permeability discontinuity associated with the redbeds.

CHEMICAL RESULTS

The analytical results for this semiannual episode are summarized in Table 4. The laboratory report is attached. The quality control evaluation can be summarized as follows:

- All samples were analyzed within required holding time;
- All surrogates were within their acceptable ranges;
- The method blank and blank spike results were acceptable;
- The matrix spike and matrix spike duplicate samples from MW-4 were within the control ranges, and
- The relative percentage difference (RPD) values for the primary and duplicate samples for MW-7 were acceptable.

The above analysis establishes that the data is suitable for groundwater chemistry evaluation.

The New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards are listed at the top of Table 4. The benzene concentration in MW-7 exceeded its standard. Ethylbenzene and xylenes were also detected in the primary and duplicate MW-7 samples but the measured concentrations were lower than the NMWQCC standards. None of the BTEX constituents were detected in wells MW-1D, MW-2, MW-3, MW-4 and MW-6 (Table 4).

The benzene distribution for this sampling event is plotted on Figure 6. Examination of Figures 5 and 6 together indicates that the benzene concentration in MW-7 attenuates to below the method detection limit by the time the water migrates to MW-3.

The historical values are summarized for benzene in Table 5, toluene in Table 6, ethylbenzene in Table 7 and xylenes in Table 8. The historic BTEX concentrations for MW-7 are plotted on Figure 7. MW-7 is directly down-gradient from well MW-1 that contains FPH (Figure 2). Examination of Figure 7 indicates that the benzene concentration increased substantially. This increase probably resulted from the enhanced precipitation. The concentration should decline in subsequent monitoring events.

The historic BTEX concentrations for MW-6 are also plotted on Figure 7. The benzene concentration in MW-6 declined to below the method detection limit for the second monitoring event after an anomalously high value was measured the second half of 2009.

None of the data collected during this monitoring event indicated expansion of the down-gradient margin of the dissolved phase benzene plume although an internal adjustment at MW-7 appears to be present. AEC recommends that semi-annual monitoring continue based upon the long-term stability of the plume margin and the distance from MW-7 to the down-gradient property boundary at MW-3.

The next semi-annual groundwater-monitoring episode is scheduled for the first half of 2011. Do not hesitate to contact me if you have any questions or comments on this report or any other aspects of the project.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

Michael H. Stewart, PE, CPG
Principal Engineer

MHS/tbm
attachments

TABLES

Table 1 – Monument Booster Well Construction Summary

Well	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Installation Date	Well Depth (TOC) (feet)	Well Diameter (inches)
MW-1	3588.85	3,591.15	2/94	37.00	4
MW-1D	3589.06	3,591.31	5/95	36.25	2
MW-2	3594.13	3,596.30	2/94	43.25	4
MW-3	3581.46	3,583.86	5/95	35.65	4
MW-4	3586.10	3,588.77	5/95	38.95	4
MW-5	3589.62	3,592.16	5/95	37.00	4
MW-6	3586.15	3,587.93	11/95	38.45	4
MW-7	3588.06	3,589.40	11/95	38.45	4

Table 2 – Monument Booster Summary of Water Table Elevations

Well	5/16/95	11/21/95	1/18/96	4/24/96	1/22/97	8/11/97	1/23/98	8/3/98	2/10/99	8/17/99	2/17/00	8/23/00	2/8/01	7/30/01	2/13/02	9/27/02	4/25/03
MW-1	3565.17	3565.65	3565.32	3565.47	3565.27	3565.14	3565.59	3564.84	3565.67	3565.75	3565.53	3565.49	3565.34	3564.97	3565.03	3564.95	3565.36
MW-1D	3565.27	3565.77	3565.42	3565.61	3565.46	3565.28	3565.65	3564.96	3565.77	3565.81	3565.59	3565.55	3565.55	3565.07	3565.46	3564.99	3565.46
MW-2	3567.02	3567.21	3567.15	3567.20	3567.15	3566.92	3567.32	3566.76	3567.37	3567.24	3567.23	3567.08	3567.18	3566.78	3567.29	3566.81	3567.14
MW-3	3561.14	3561.74	3561.61	3561.61	3560.84	3560.68	3560.49	3560.37	3560.29	3560.73	3560.53	3560.83	3560.85	3560.61	3560.22	3560.09	3560.37
MW-4	3562.32	3562.98	3562.87	3562.79	3562.27	3562.00	3562.23	3562.00	3562.09	3562.63	3562.27	3562.58	3562.54	3562.27	3562.01	3561.87	3562.13
MW-5	3564.06	3564.54	3564.33	3564.40	3564.18	3564.10	3564.30	3563.80	3564.30	3564.55	3564.21	3564.21	3564.25	3563.94	3564.15	3563.88	3564.21
MW-6		3563.22	3563.82	3562.99	3562.49	3562.29	3562.68	3562.20	3562.57	3563.28	3562.69	3563.15	3562.99	3562.57	3562.45	3562.19	3562.54
MW-7		3564.24	3563.92	3564.07	3563.84	3563.67	3564.02	3563.39	3564.08	3564.21	3563.97	3563.98	3563.97	3563.55	3563.82	3563.45	3563.84

Well	9/18/03	3/16/04	8/17/04	3/4/05	9/21/05	3/16/06	9/20/06	3/22/07	9/25/07	3/20/08	09/17/08	3/10/09	9/23/09	5/17/10	9/16/10
MW-1	3564.59	3566.65	3565.51	3566.92	3566.08	3565.81	3567.01	3565.95	3566.10	NM	NM	3564.30	3564.03	3563.86	3565.50
MW-1D	3564.74	3566.71	3565.60	3566.92	3566.79	3565.98	3567.35	3566.16	3566.34	3565.23	3565.15	3564.60	3564.63	3564.11	3565.68
MW-2	3566.71	3567.75	3567.13	3567.63	3567.44	3567.51	3567.79	3567.58	3567.46	3567.02	3567.02	3566.75	3566.73	3566.22	3567.26
MW-3	3559.92	3560.52	3561.33	3564.34	3563.24	3562.55	3563.71	3563.22	3562.66	3562.06	3561.47	3561.04	3560.62	3560.26	3561.38
MW-4	3561.72	3562.36	3562.87	3565.42	3564.11	3563.47	3564.65	3564.02	3563.44	3562.89	3562.60	3562.21	3561.99	3561.62	3562.87
MW-5	3563.58	3564.76	3564.47	3566.23	3565.23	3564.68	3566.20	3564.53	3565.26	NM	NM	3563.51	3563.47	3563.11	3564.51
MW-6	3561.98	3562.81	3563.14	3566.08	3564.38	3563.53	3565.92	3564.82	3563.63	NM	3562.60	NM	3562.12	3561.83	3563.54
MW-7	3563.22	3564.92	3564.11	3565.51	3564.83	3564.44	3565.94	3564.72	3564.85	3563.75	3563.71	3563.24	3563.17	3562.70	3564.16

Units are feet
Blank cells denote wells not installed
NM: Well installed but not measured

Table 3 - Summary of Free Phase Hydrocarbon Thickness in MW-1 and MW-5

Date	MW-1	MW-5		Date	MW-1	MW-5		Date	MW-1	MW-5
7/24/95	2.48			4/4/00	0.13	0.16		8/20/03	0.15	0.001
7/27/95	0.53			4/24/00	0.22	0.01		9/18/03	0	0.001
11/15/95	1.35	0.77		6/15/00	0.46	0.01		10/28/03	0	0.001
11/21/95	1.86	0.76		7/19/00	0.12	0.15		11/21/03	0.17	0.001
12/20/95	2.14	0.75		8/23/00	0.09	0.15		12/8/03	0.3	0.001
1/18/96	2.18	0.75		10/3/00	0.5	0.19		1/15/04	0.1	0.09
4/24/96	2.09	0.79		12/14/00	0.17	0.42		2/20/04	0	0.37
6/14/96	2.27	0.82		1/23/01	0.31	0.22		3/16/04	0	0.29
1/27/97	2.21	0.59		2/9/01	0.62	0.01		4/29/04	0.71	0.75
8/11/97	0.02	0.09		4/4/01	0.11	0.16		5/26/04	0.38	0.45
8/9/97	0.03	0.08		5/16/01	0.36	0.08		8/17/04	0.01	0.03
9/18/97	0.04			6/19/01	0.83	0.01		3/4/05	1.41	0.17
10/22/97		0.04		7/20/01	0.57	0.001		9/21/05	0.6	0.31
11/25/97		0.09		9/10/01	0.22	0.001		3/16/06	0.37	0.39
12/9/97		0.22		10/9/01	0.13	0.001		9/20/06	1.6	0.55
1/23/98	0.08	0.04		11/8/01	0.19	0.001		3/22/07	0.55	0.44
2/24/98	0.03	0.33		12/11/01	0.24	0.01		9/25/07	0.83	0.20
3/23/98	0	0.38		1/18/02	0.12	0.2		3/10/09	1.87	0.75
6/23/98	0.03	0.58		2/13/02	0.69	0.01		9/23/09	2.89	0.69
8/3/98	0.01	0.53		3/14/02	0.14	0.001		5/17/10	1.64	0.70
9/18/98	0.09	0.36		4/10/02	0.08	0.001		9/16/10	0.23	0.62
10/28/98	0.07	0.31		5/14/02	0.22	0.01				
11/17/98	0.03	0.27		6/18/02	0.69	0.01				
2/10/99	0.09	0.76		7/12/02	0.37	0.001				
3/24/99	0.27	1.2		8/14/02	0.75	0.02				
4/20/99	0.49	1.64		9/24/02	0.69	0.001				
5/13/99	0.02	0.19		10/24/02	0.27	0.001				
6/14/99	0.02	0.32		11/22/02	0.08	0.001				
8/4/99	0.03	0.51		12/17/02	0.08	0.02				
8/17/99	0.01	0.39		1/15/03	0.05	0.05				
9/14/99	0.04	0.37		2/18/03	0.11	0.1				
10/26/99	0.22	0.53		3/28/03	0.6	0.09				
11/22/99	0.24	0.37		4/23/03	0.09	0.001				
12/20/99	0.01	0.32		5/29/03	0.66	0.06				
1/26/00	0.06	0.28		6/23/03	0.41	0.001				
2/17/00	0.08	0.1		7/30/03	0.31	0.001				

Notes: Units in feet, some data compiled from historical reports generated by others

Table 4 – Monument Booster September 2010 Sampling Results

Well	Benzene	Toluene	Ethylbenzene	Xylenes
NMWQCC	0.01	0.75	0.75	0.62
MW-1D	<0.001	<0.002	<0.002	<0.004
MW-2	<0.001	<0.002	<0.002	<0.004
MW-3	<0.001	<0.002	<0.002	<0.004
MW-4	<0.001	<0.002	<0.002	<0.004
MW-6	<0.001	<0.002	<0.002	<0.004
MW-7	**0.522**	<0.01	0.294	0.0383
MW-7 Dup	**0.512**	<0.01	0.289	0.0378

All units mg/l
NMWQCC: New Mexico Water Quality Control Commission groundwater standards.
All constituents that exceed the above standards are highlighted as bold text
J modifier notes estimated value (between method detection limit and method reporting limit).

Table 5 - Monument Booster Summary of Historical Results for Benzene

Sample Date	MW-1D	MW-2	MW-3	MW-4	MW-6	MW-7
05/16/95	0.018	<0.001	<0.001	<0.001		
11/15/95	0.003		<0.001		0.003	0.465
01/18/96	0.004	<0.001	<0.001	0.003	0.002	1.13
04/24/96	<0.001	<0.001	<0.001	<0.002	<0.001	0.585
01/22/97	0.001	<0.001	<0.001	0.002	0.001	0.896
08/11/97	<0.001	<0.001	<0.001	0.001	<0.001	0.317
01/23/98	<0.001	<0.001	<0.001	<0.001	<0.001	0.876
08/03/98	<0.001	<0.001	0.007	<0.001	<0.001	0.094
02/10/99	<0.001	<0.001	<0.005	<0.001	<0.001	0.597
08/17/99	<0.001	0.017	0.043	<0.001	0.002	0.705
02/18/00	0.002	<0.001	0.021	<0.005	<0.001	0.573
08/23/00	<0.005	<0.001	0.006	<0.005	<0.001	0.546
02/09/01	<0.001	<0.001	0.004	0.002	<0.001	0.355
07/30/01	<0.001	<0.001	0.002	<0.001	<0.001	0.017
02/13/02	<0.001	<0.001	0.002		<0.001	0.228
09/27/02	<0.001	<0.001	<0.005		<0.005	0.015
04/25/03	<0.005	<0.001	<0.005	<0.001	<0.001	0.157
09/18/03	0.002	0.002	0.002	<0.001	0.002	0.018
03/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	0.125
08/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	0.237
03/04/05	<0.001	<0.001	<0.001	<0.001	0.0061	0.125/0.121
09/21/05	<0.001	<0.001	<0.001	<0.001	<0.001	0.15/0.148
03/16/06	<0.001	<0.001	<0.001	<0.001	<0.001	0.191
09/20/06	<0.001	<0.001	<0.001	<0.001	0.0391	0.236
03/22/07	<0.001	<0.001	<0.001	<0.001	<0.001	0.209/0.215
09/25/07	<0.001	<0.001	<0.001	<0.001	<0.001	0.465/0.458
03/20/08	<0.002	<0.002	<0.002	<0.002		0.161/0.169
09/17/08	<0.002	<0.002	<0.002	<0.002		0.083
03/10/09	<0.002/<0.002	<0.002	<0.002	<0.002		0.0339
09/23/09	<0.002	<0.002	<0.002	<0.002	0.035	0.0332/<0.002
05/17/10	<0.002	<0.002	<0.002	<0.002	<0.002	0.0201/0.0198
09/16/10	<0.001	<0.001	<0.001	<0.001	<0.001	0.522/0.512

All units mg/l

Blank cells note samples for wells that were either not installed or not sampled

Table 6 - Monument Booster Summary of Historical Results for Toluene

Sample Date	MW-1D	MW-2	MW-3	MW-4	MW-6	MW-7
05/16/95	0.015	<0.001	<0.001	<0.001		
11/15/95	0.002	0.006	<0.001	0.006	0.001	0.205
01/18/96	0.003	<0.001	<0.001	<0.001	<0.001	0.476
04/24/96	<0.001	<0.001	<0.001	<0.002	<0.001	0.251
01/22/97	0.001	<0.001	<0.001	<0.001	<0.001	0.240
08/11/97	<0.001	<0.001	<0.001	<0.001	<0.001	0.155
01/23/98	<0.001	<0.001	<0.001	<0.001	<0.001	0.486
08/03/98	<0.001	<0.001	<0.001	<0.001	<0.001	0.064
02/10/99	<0.001	<0.001	<0.005	<0.001	<0.001	0.440
08/17/99	<0.001	0.002	<0.005	<0.001	<0.001	0.060
02/18/00	0.003	<0.001	<0.005	<0.005	0.004	0.490
08/23/00	<0.005	<0.001	<0.005	<0.005	0.004	0.484
02/08/01	<0.001	<0.001	0.001	<0.001	<0.001	0.424
07/30/01	<0.001	<0.001	<0.001	<0.001	<0.001	0.058
02/13/02	<0.001	<0.001	<0.001		<0.001	0.094
09/27/02	<0.001	<0.001	<0.005		<0.005	0.017
04/25/03	<0.005	<0.001	<0.005	<0.001	<0.001	0.192
09/18/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.023
03/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	0.108
08/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	0.081
03/04/05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09/21/05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03/16/06	<0.001	<0.001	<0.001	<0.001	<0.001	0.0032
09/20/06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03/22/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05/<0.01
09/25/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01/<0.01
03/20/08	<0.002	<0.002	<0.002	<0.002		<0.002/<0.002
09/17/08	<0.002	<0.002	<0.002	<0.002		<0.002
03/10/09	<0.002/<0.002	<0.002	<0.002	<0.002		<0.002
09/23/09	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002/<0.002
05/17/10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002/<0.002
09/16/10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01/<0.01

All units mg/l

Blank cells note samples for wells that were either not installed or not sampled

Table 7 - Monument Booster Summary of Historical Results for Ethylbenzene

Sample Date	MW-1D	MW-2	MW-3	MW-4	MW-6	MW-7
05/16/95	0.006	<0.001	<0.001	<0.001		
11/15/95	<0.001	0.002	<0.001	0.002	<0.001	<0.001
01/18/96	<0.001	<0.001	<0.001	<0.001	<0.001	0.003
04/24/96	<0.001	<0.001	<0.001	<0.002	<0.001	<0.002
01/22/97	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
08/11/97	<0.001	<0.001	<0.001	<0.001	<0.001	0.020
01/23/98	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
08/03/98	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
02/10/99	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005
08/17/99	<0.001	0.013	<0.005	<0.001	<0.001	<0.005
02/18/00	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005
08/23/00	<0.005	<0.001	<0.005	<0.005	<0.001	0.006
02/09/01	<0.001	<0.001	0.002	<0.001	<0.001	<0.005
07/30/01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
02/13/02	<0.001	<0.001	<0.001		<0.001	<0.005
09/27/02	<0.001	<0.001	<0.005		<0.005	<0.005
04/25/03	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005
09/18/03	<0.001	<0.001	<0.001	<0.001	0.002	<0.001
03/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010
08/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020
03/04/05	<0.001	<0.001	<0.001	<0.001	0.0032	0.0467/0.0453
09/21/05	<0.001	<0.001	<0.001	<0.001	<0.001	0.0794/0.0789
03/16/06	<0.001	<0.001	<0.001	<0.001	<0.001	0.0733
09/20/06	<0.001	<0.001	<0.001	<0.001	0.0287	0.176
03/22/07	<0.001	<0.001	<0.001	<0.001	<0.001	0.149/0.121
09/25/07	<0.001	<0.001	<0.001	<0.001	<0.001	0.318/0.314
03/20/08	<0.002	<0.002	<0.002	<0.002		0.057/0.0637
09/17/08	<0.002	<0.002	<0.002	<0.002		0.0475
03/10/09	<0.002/<0.002	<0.002	<0.002	<0.002		0.0177
09/23/09	<0.002	<0.002	<0.002	<0.002	0.0215	0.0176/<0.002
05/17/10	<0.002	<0.002	<0.002	<0.002	<0.002	0.0095/0.0092
09/16/10	<0.002	<0.002	<0.002	<0.002	<0.002	0.294/0.289

All units mg/l
Blank cells note samples for wells that were either not installed or not sampled

Table 8 - Monument Booster Summary of Historical Results for Total Xylenes

Sample Date	MW-1D	MW-2	MW-3	MW-4	MW-6	MW-7
05/16/95	0.016	<0.001	<0.001	<0.001		
11/15/95	0.001	0.009*	<0.001	0.010*	0.003	0.163
01/18/96	0.009	<0.001	<0.001	<0.001	<0.001	0.365
04/24/96	<0.001	<0.001	<0.001	<0.002	<0.001	0.013
01/22/97	<0.001	<0.001	<0.001	<0.001	<0.001	0.330
08/11/97	<0.001	<0.001	<0.001	<0.001	0.001	0.049
01/23/98	<0.001	<0.001	<0.001	<0.001	<0.001	0.181
08/03/98	<0.001	<0.001	<0.001	<0.001	<0.001	0.007
02/10/99	<0.001	<0.001	<0.005	<0.001	0.014	0.120
08/17/99	<0.001	0.003	<0.005	0.001	0.012	0.556
02/17/00	0.001	<0.001	<0.005	<0.005	0.006	0.226
08/23/00	<0.005	<0.001	<0.005	<0.005	0.011	0.177
02/08/01	0.001	<0.001	0.005	0.002	0.011	0.052
07/30/01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
02/13/02	<0.001	<0.001	<0.001		<0.001	0.050
09/27/02	<0.001	<0.001	<0.005		<0.005	<0.005
04/25/03	<0.005	<0.001	<0.005	<0.001	<0.001	0.020
09/18/03	<0.001	<0.001	<0.001	<0.001	0.001	0.004
03/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	0.033
08/17/04	<0.001	<0.001	<0.001	<0.001	<0.001	<0.020
03/04/05	<0.001	<0.001	<0.001	<0.001	<0.001	0.0202
09/21/05	<0.001	<0.001	<0.001	<0.001	<0.001	0.0248
03/16/06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09/20/06	<0.001	<0.001	<0.001	0.0043	0.0194	0.187
03/22/07	<0.001	<0.001	<0.001	0.0036	0.0013	0.116/0.0532
09/25/07	<0.001	<0.001	<0.001	<0.001	<0.001	0.307/0.302
03/20/08	<0.006	<0.006	<0.006	<0.006		0.0295/0.0325
09/17/08	<0.002	<0.006	<0.006	<0.006		0.0204
03/10/09	<0.006/<0.006	<0.006	<0.006	<0.006		0.0052 J
09/23/09	<0.006	<0.006	<0.006	<0.006	0.0052J	0.0033J/<0.006
05/17/10	<0.006	<0.006	<0.006	<0.006	<0.006	0.0033J/0.0033J
09/16/10	<0.004	<0.004	<0.004	<0.004	<0.004	0.0383/0.0378

All units mg/l
Blank cells note samples for wells that were either not installed or not sampled

FIGURES

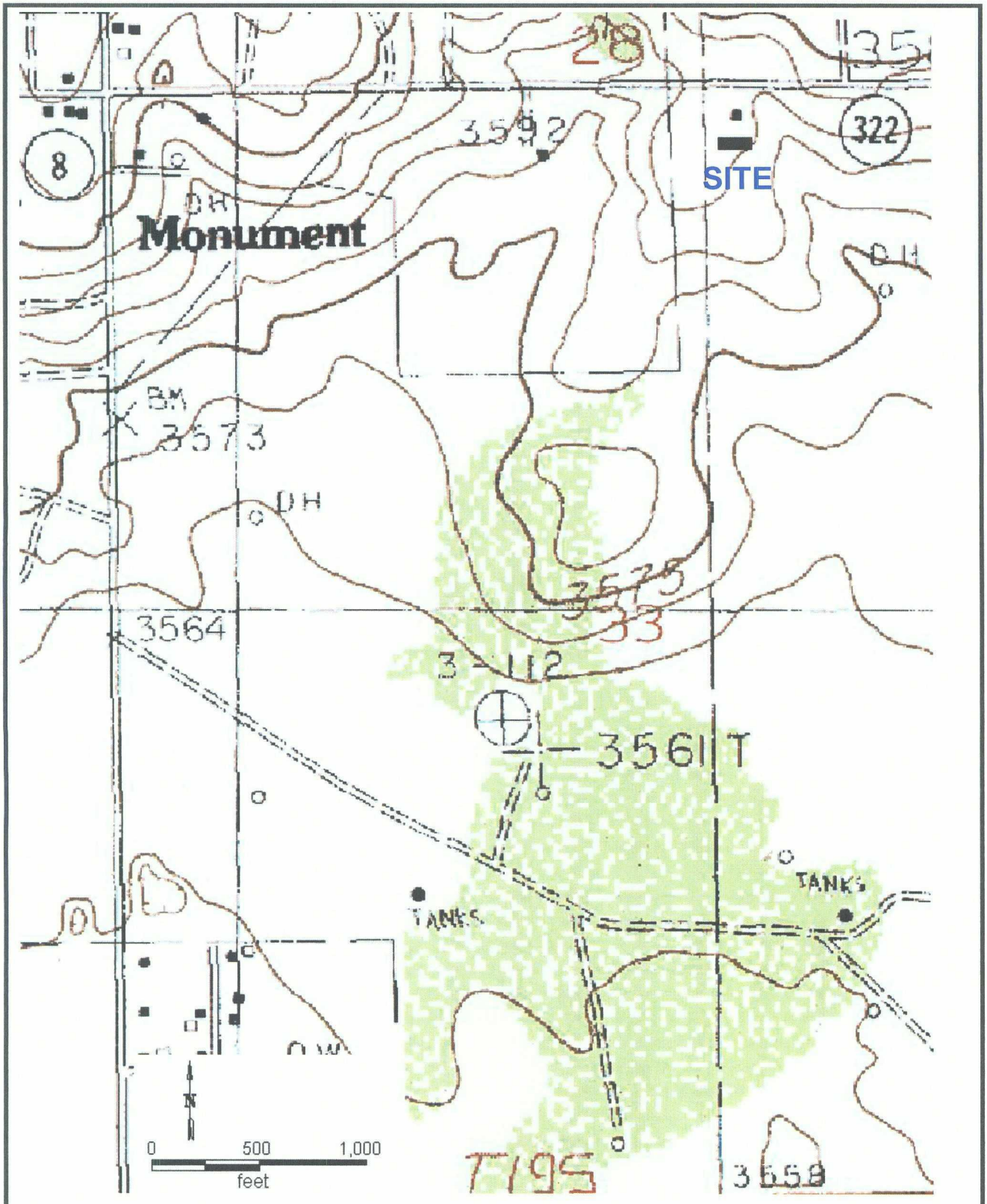


Figure 1 – Facility Location

Monument Booster Station Groundwater Monitoring

dcp Midstream

DRAWN BY: MHS
REVISED:
DATE: 1/07

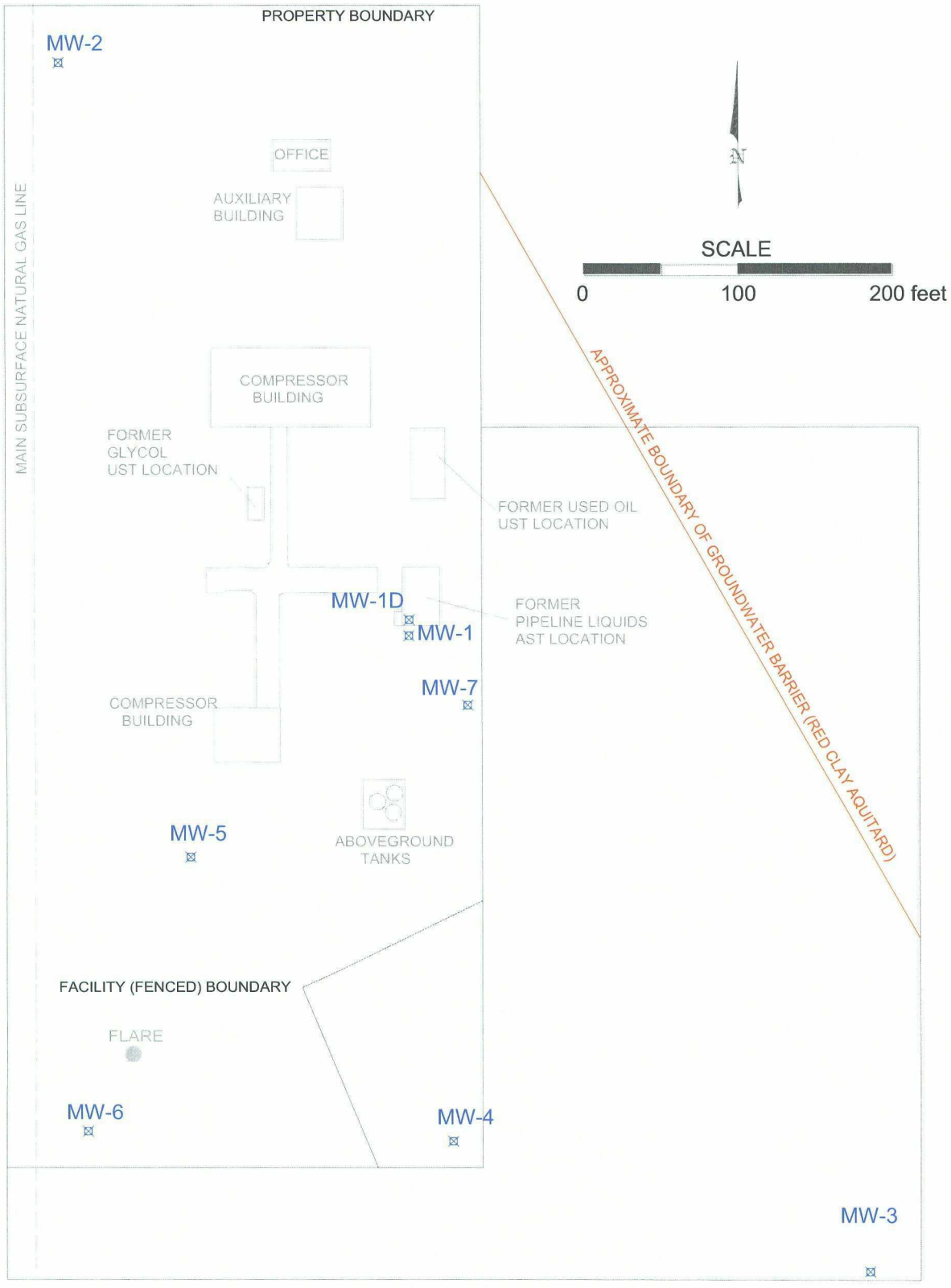


Figure 2 – Monitor Well Locations

Monument Booster Station Groundwater Monitoring

dcp Midstream

DRAWN BY: MHS
REVISED: 4/09
DATE: 5/07

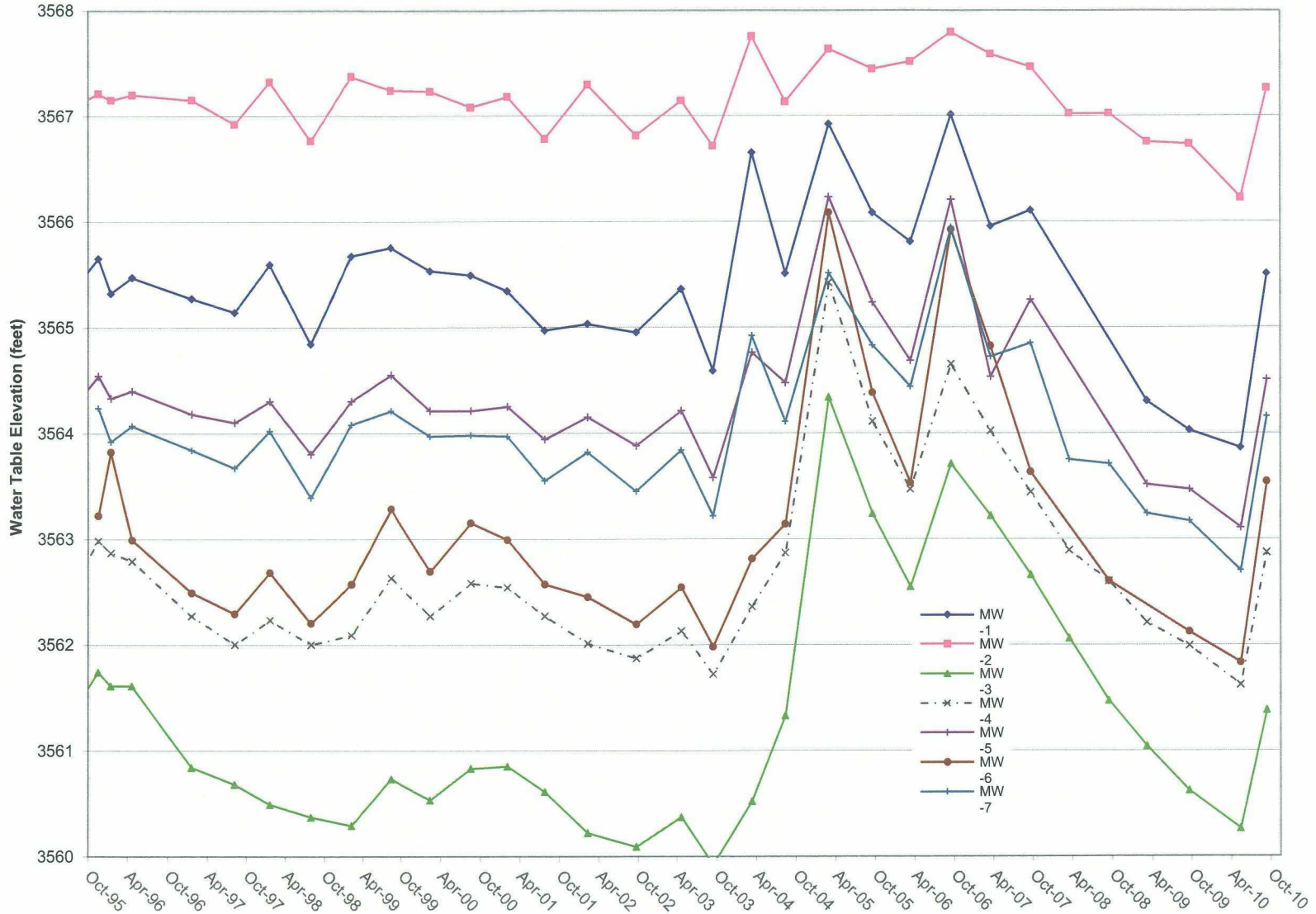


Figure 3 – Monument Booster Hydrographs

Monument Booster Station Groundwater Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 11/10

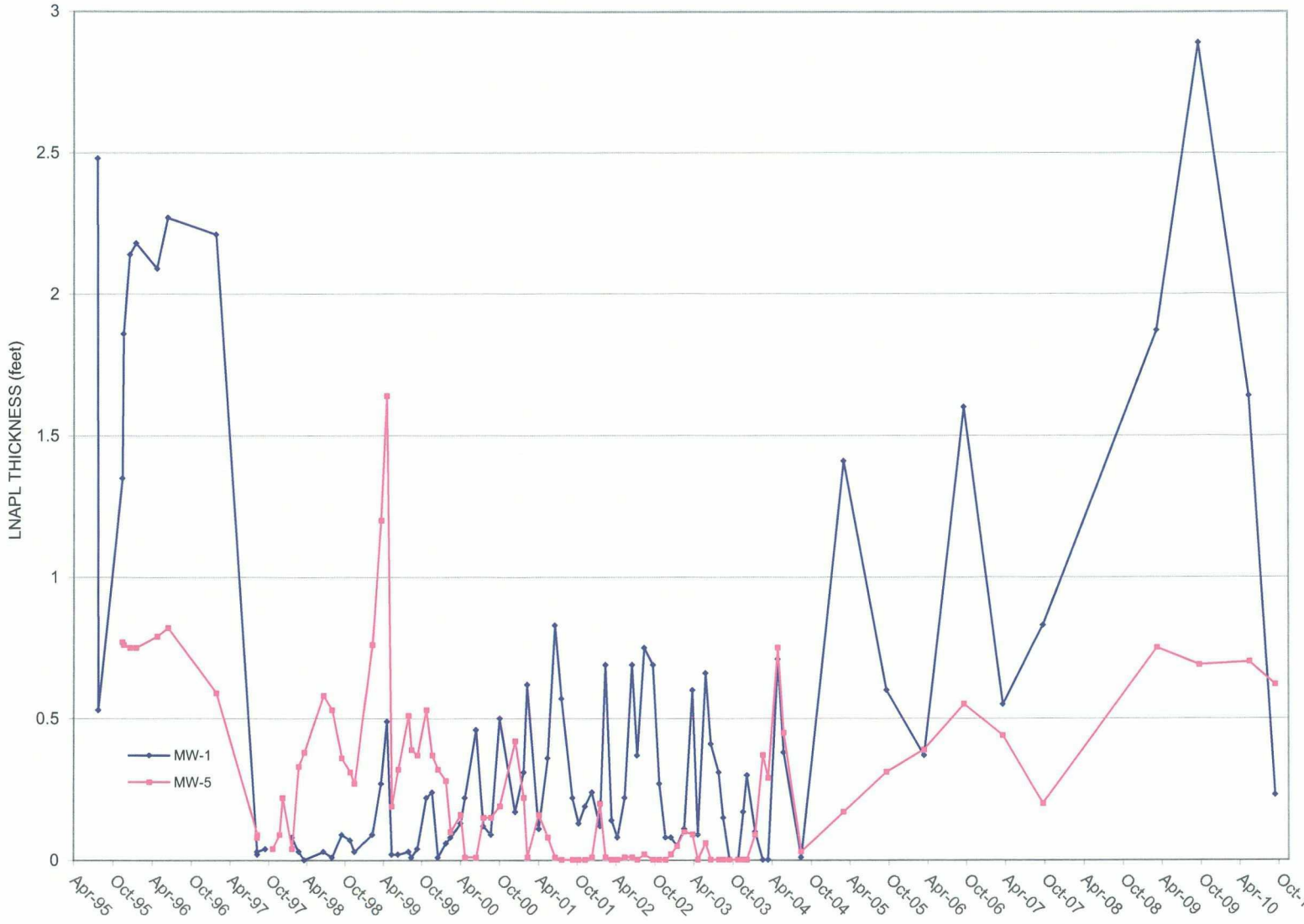


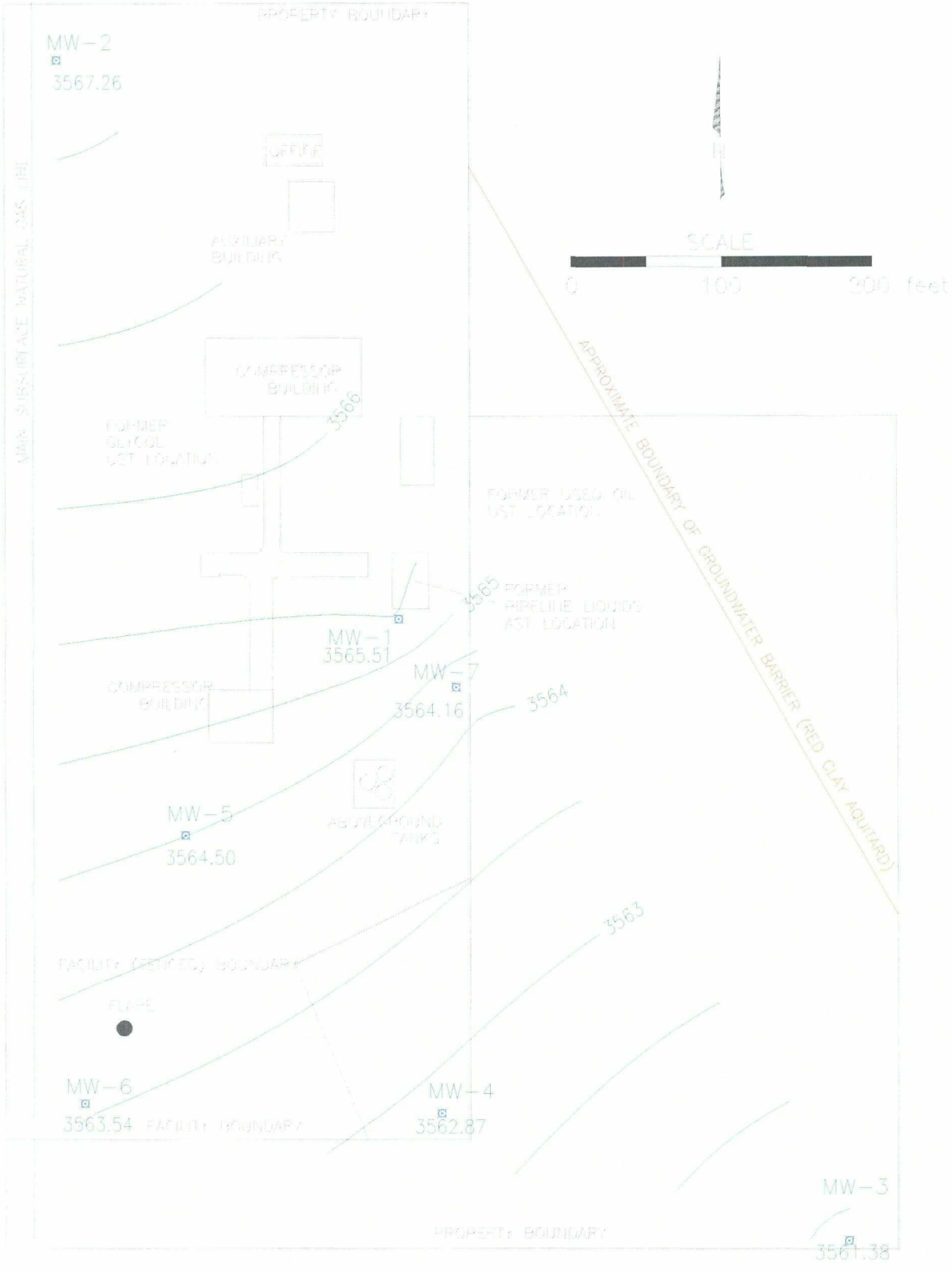
Figure 4 – Free Phase Hydrocarbon Thickness

Monument Booster Station Groundwater Monitoring

dcp Midstream.

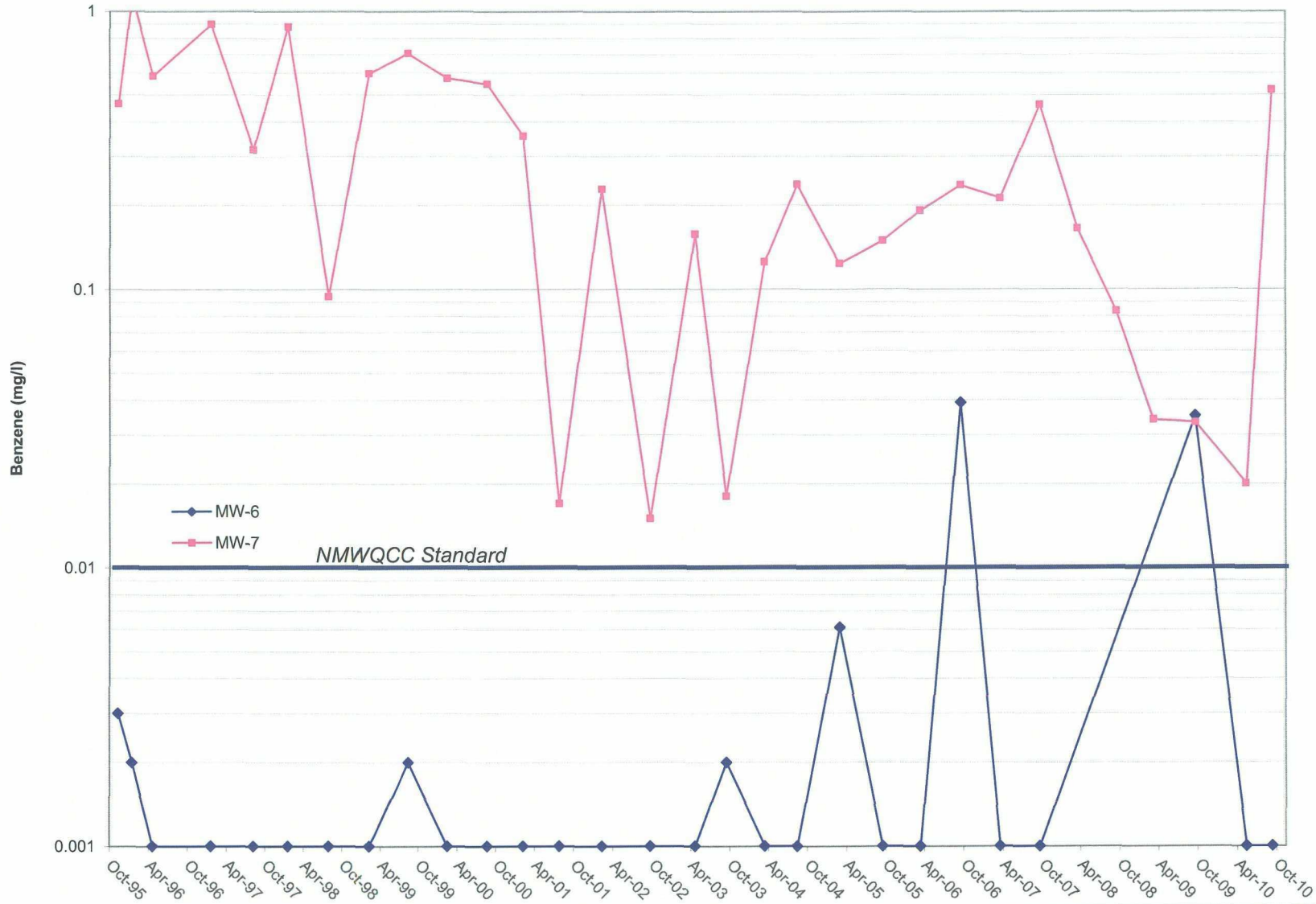
DRAWN BY: MHS

DATE: 11/10



Contour Interval is 0.5 feet

	Figure 6 - September Water Table Elevations Monument Booster Station Groundwater Monitoring dcp Midstream	DRAWN BY: MHS REVISED: DATE: 11/10



Notes

- NMWQCC: New Mexico Water Quality Control Commission
- Values that were reported as below the method reporting limit are plotted at concentrations of 0.001 mg/l

Figure 7 – MW-6 and MW-7 Benzene Concentrations

Monument Booster Station Groundwater Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 11/10

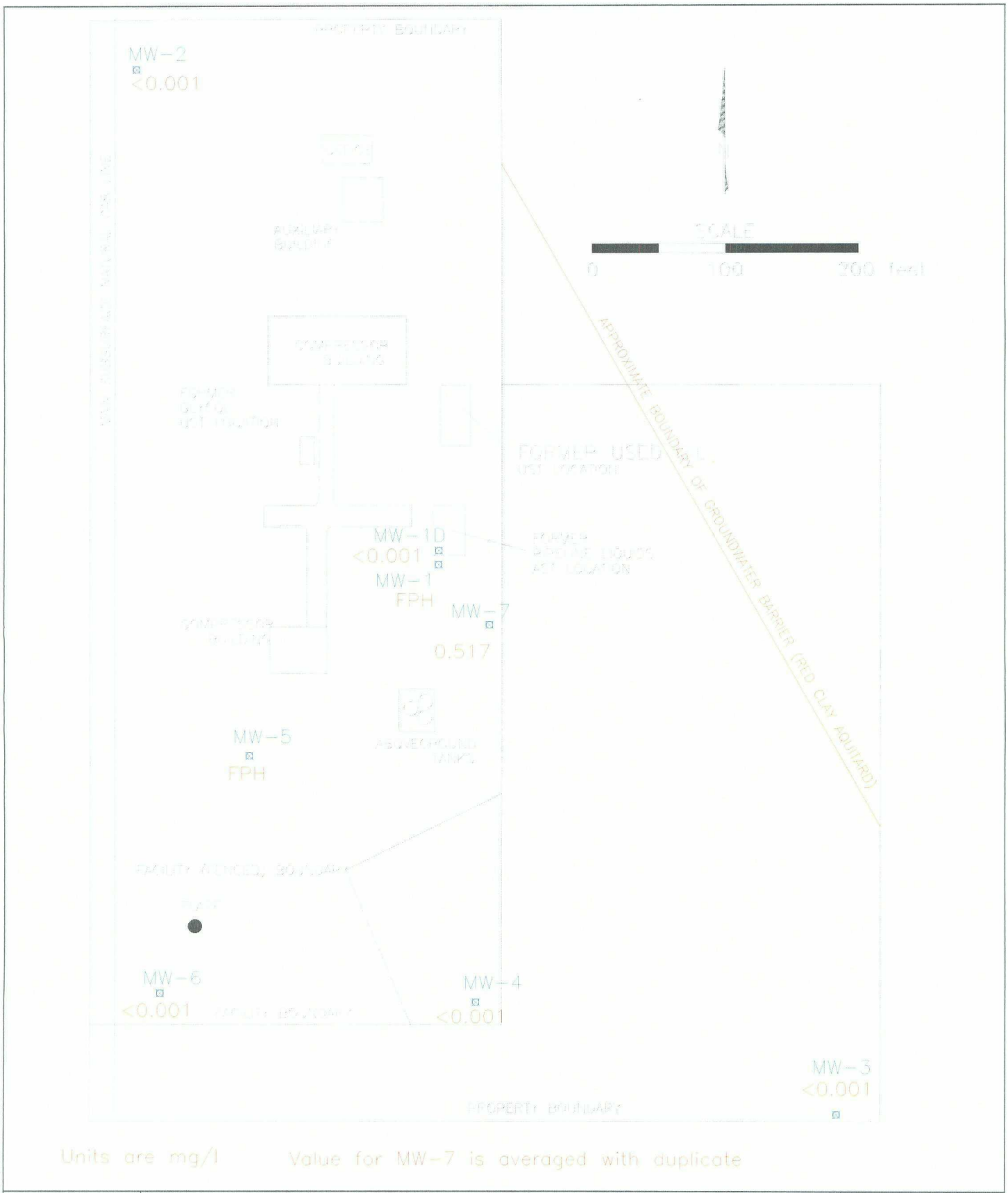


Figure 6 - September 2010 Benzene Concentrations

Monument Booster Station Groundwater Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	
DATE:	11/10

WELL SAMPLING DATA AND

LABORATORY ANALYTICAL REPORTS

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream

WELL ID: **MW-1**

SITE NAME: Monument Booster

DATE: 9/16/2010

PROJECT NO.

SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☐ Hand Bailed ☐ Pump If Pump, Type:

SAMPLING METHOD: ☐ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☐ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 37.00 Feet
DEPTH TO WATER: Feet
HEIGHT OF WATER COLUMN: Feet
WELL DIAMETER: 4.0 Inch

Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m* S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	0	Total Volume (gal)					

SAMPLE NO.: MW-1

ANALYSES: BTEX (8260)

COMMENTS: DID NOT SAMPLE DUE TO FREE PHASE HYDROCARBONS IN WELL

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream
WELL ID: **MW-1D**
SITE NAME: Monument Booster
DATE: 9/16/2010
PROJECT NO.
SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type:

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 36.30 Feet
DEPTH TO WATER: 25.63 Feet
HEIGHT OF WATER COLUMN: 10.67 Feet
WELL DIAMETER: 2.0 Inch

5.2 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	2.0	22.4	1.42	7.01			
	4.0	21.5	1.45	7.07			
	6.0	21.4	1.46	7.11			
	6.0	Total Volume (gal)					

SAMPLE NO.: MW-1D
ANALYSES: BTEX (8260)
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream
WELL ID: **MW-2**
SITE NAME: Monument Booster
DATE: 9/16/2010
PROJECT NO.
SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type:
SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:
DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:
☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 43.30 Feet
DEPTH TO WATER: 29.04 Feet
HEIGHT OF WATER COLUMN: 14.26 Feet
WELL DIAMETER: 4.0 Inch

27.9 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	9.5	20.8	3.79	7.2			
	19.0	20.6	3.82	7.24			
	28.5	20.5	3.78	7.26			

28.5 Total Volume (gal)

SAMPLE NO.: MW-2
ANALYSES: BTEX (8260)
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream
WELL ID: **MW-3**
SITE NAME: Monument Booster
DATE: 9/16/2010
PROJECT NO.
SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type:

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 35.70 Feet
DEPTH TO WATER: 22.48 Feet
HEIGHT OF WATER COLUMN: 13.22 Feet
WELL DIAMETER: 4.0 Inch

25.9 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	9.0	21.4	1.23	7.06			
	18.0	20.4	1.22	7.23			
	27.0	20.1	1.22	7.21			
	27.0	Total Volume (gal)					

SAMPLE NO.: MW-3
ANALYSES: BTEX (8260)
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream
WELL ID: **MW-4**
SITE NAME: Monument Booster
DATE: 9/16/2010
PROJECT NO.
SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type:

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 38.90 Feet
DEPTH TO WATER: 25.90 Feet
HEIGHT OF WATER COLUMN: 13.00 Feet
WELL DIAMETER: 4.0 Inch

25.5 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
		20.1	21.10	7.28	1.0		Bailed down
	0.0	Total Volume (gal)					

SAMPLE NO.: MW-4
ANALYSES: BTEX (8260)
COMMENTS: Collected samples for MS/MSD evaluation

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream
WELL ID: **MW-5**
SITE NAME: Monument Booster
DATE: 9/16/2010
PROJECT NO.
SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type:

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 37.00 Feet
DEPTH TO WATER: Feet
HEIGHT OF WATER COLUMN: Feet
WELL DIAMETER: 4.0 Inch

Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	0	Total Volume (gal)					

SAMPLE NO.: MW-5
ANALYSES: BTEX (8260)
COMMENTS: DID NOT SAMPLE DUE TO FREE PHASE HYDROCARBONS IN WELL

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: **MW-6**

SITE NAME: Monument Booster DATE: 9/16/2010

PROJECT NO. _____ SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

TOTAL DEPTH OF WELL: 38.50 Feet
DEPTH TO WATER: 24.39 Feet
HEIGHT OF WATER COLUMN: 14.11 Feet
WELL DIAMETER: 4.0 Inch

27.6 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	9.5	21.9	1.30	4.19			
	19.0	22.0	1.25				
	28.5	22.0	1.21	4.93			

28.5 Total Volume (gal)

SAMPLE NO.: MW-6

ANALYSES: BTEX (8260)

COMMENTS: pH readings appear to be accurate

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream
WELL ID: **MW-7**
SITE NAME: Monument Booster
DATE: 9/16/2010
PROJECT NO.
SAMPLER: N Quevedo/M Stewart

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type:

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 36.40 Feet
DEPTH TO WATER: 25.24 Feet
HEIGHT OF WATER COLUMN: 11.16 Feet
WELL DIAMETER: 4.0 Inch

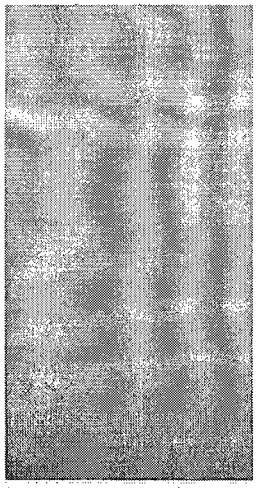
21.9 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	9.0	20.7	1.38	6.98			
	18.0	21	1.38	6.98			
	27.0	21.4	1.36	6.98			
	27.0	Total Volume (gal)					

SAMPLE NO.: MW-7
ANALYSES: BTEX (8260)
COMMENTS: Collected duplicate sample DUP

Mountain States ACCUTEST LABORATORIES

11/11/10



Technical Report for

DCP Midstream, LP

AECCOL:Monument Booster Station 400128008

Project GN00

Accutest Job Number: D17503

Sampling Date: 09/16/10

Report to:

American Environmental Consulting, LLC

mstewart@aecdenver.com

ATTN: Michael Stewart

Total number of pages in report: 18

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

John Hamilton
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

Test results relate only to samples analyzed.

Sections:

Table of Contents

-1-

Sample Summary

DCP Midstream, LP

Job No: D17503

AECCOL:Monument Booster Station 400128008
Project No: Project GN00

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
D17503-1	09/16/10	13:45		09/20/10	AQ	Ground Water	MW-1D
D17503-2	09/16/10	12:35		09/20/10	AQ	Ground Water	MW-2
D17503-3	09/16/10	14:40		09/20/10	AQ	Ground Water	MW-3
D17503-4	09/16/10	14:15		09/20/10	AQ	Ground Water	MW-4
D17503-4D	09/16/10	14:15		09/20/10	AQ	Water Dup/MSD	MW-4
D17503-4M	09/16/10	14:15		09/20/10	AQ	Water Matrix Spike	MW-4
D17503-5	09/16/10	13:15		09/20/10	AQ	Ground Water	MW-6
D17503-6	09/16/10	14:00		09/20/10	AQ	Ground Water	MW-7
D17503-7	09/16/10	00:00		09/20/10	AQ	Ground Water	DUP

ACCUTEST Laboratories

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	DCP Midstream, LP	**Job No**	D17503
Site:	AECCOL:Monument Booster Station 400128008	**Report Dat**	9/24/2010 3:05:08 PM

On 09/20/2010, 7 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 5.2 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D17503 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V3V389

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D17503-4MS and D17503-4MSD were used as the QC samples indicated.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1D		
Lab Sample ID:	D17503-1	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECCOL:Monument Booster Station 400128008		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V07178.D	1	09/20/10	DC	n/a	n/a	V3V389
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00030	mg/l	
	m,p-Xylene	ND	0.0040	0.00060	mg/l	
95-47-6	o-Xylene	ND	0.0020	0.00060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		63-130%
2037-26-5	Toluene-D8	91%		68-130%
460-00-4	4-Bromofluorobenzene	87%		61-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	D17503-2	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECCOL:Monument Booster Station 400128008		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V07179.D	1	09/20/10	DC	n/a	n/a	V3V389
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00030	mg/l	
	m,p-Xylene	ND	0.0040	0.00060	mg/l	
95-47-6	o-Xylene	ND	0.0020	0.00060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%		63-130%
2037-26-5	Toluene-D8	91%		68-130%
460-00-4	4-Bromofluorobenzene	84%		61-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	D17503-3	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECCOL:Monument Booster Station 400128008		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V07180.D	1	09/20/10	DC	n/a	n/a	V3V389
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00030	mg/l	
	m,p-Xylene	ND	0.0040	0.00060	mg/l	
95-47-6	o-Xylene	ND	0.0020	0.00060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	90%		63-130%
2037-26-5	Toluene-D8	90%		68-130%
460-00-4	4-Bromofluorobenzene	84%		61-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	D17503-4	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECCOL:Monument Booster Station 400128008		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V07181.D	1	09/20/10	DC	n/a	n/a	V3V389
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00030	mg/l	
	m,p-Xylene	ND	0.0040	0.00060	mg/l	
95-47-6	o-Xylene	ND	0.0020	0.00060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	89%		63-130%
2037-26-5	Toluene-D8	91%		68-130%
460-00-4	4-Bromofluorobenzene	87%		61-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	D17503-5	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECCOL:Monument Booster Station 400128008		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V07184.D	1	09/20/10	DC	n/a	n/a	V3V389
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00030	mg/l	
	m,p-Xylene	ND	0.0040	0.00060	mg/l	
95-47-6	o-Xylene	ND	0.0020	0.00060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		63-130%
2037-26-5	Toluene-D8	90%		68-130%
460-00-4	4-Bromofluorobenzene	85%		61-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	D17503-6	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECCOL:Monument Booster Station 400128008		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V07185.D	5	09/20/10	DC	n/a	n/a	V3V389
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.522	0.0050	0.0015	mg/l	
108-88-3	Toluene	ND	0.010	0.0050	mg/l	
100-41-4	Ethylbenzene	0.294	0.010	0.0015	mg/l	
	m,p-Xylene	0.0383	0.020	0.0030	mg/l	
95-47-6	o-Xylene	ND	0.010	0.0030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	88%		63-130%
2037-26-5	Toluene-D8	91%		68-130%
460-00-4	4-Bromofluorobenzene	85%		61-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	D17503-7	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/20/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AECCOL:Monument Booster Station 400128008		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V07186.D	5	09/20/10	DC	n/a	n/a	V3V389
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.512	0.0050	0.0015	mg/l	
108-88-3	Toluene	ND	0.010	0.0050	mg/l	
100-41-4	Ethylbenzene	0.289	0.010	0.0015	mg/l	
	m,p-Xylene	0.0378	0.020	0.0030	mg/l	
95-47-6	o-Xylene	ND	0.010	0.0030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	87%		63-130%
2037-26-5	Toluene-D8	92%		68-130%
460-00-4	4-Bromofluorobenzene	86%		61-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- **Chain of Custody**

CHAIN OF CUSTODY

D17503

4036 Youngfield Street
Wheat Ridge CO 80033
303-425-6021 Phone 303-425-6854 Fax

Accutest Job #: 400128008
Accutest Quote #:

Client Information

DCP Midstream
Name: 370 Seventeenth Street, Suite 2500
Address: Denver CO 80202
City / State / Zip
Chandler Cole
Send Report to:
Phone #: 303.605.1895

Facility Information

DCP Midstream
Project Name: Monument Booster Station
Location: Monument New Mexico
Project/PO #: GN00
FAX #:

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	BTEX 8260B	MS/MSD FOR BTEX 8260B	
MW-1d	9-16	1345		GW	3	X					X		01
MW-2	9-16	1235		GW	3	X					X		02
MW-3	9-16	1440		GW	3	X					X		03
MW-4	9-16	1415		GW	3	X					X		04
MW-6	9-16	1315		GW	3	X					X		05
MW-7	9/16	1400		GW	3	X					X		06
Dup				GW	3	X					X		07 ~~not Rec'd~~
Trip Blank				GW	2	X					X		not Rec'd
MW-4 MS/MSD				GW	6	X						X	04MS/MSD

Turnaround Information

- [ ] 21 Day Standard — Approved By:
- [ ] 14 Day
- [X] 7 Days
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [X] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Accutest to invoice DCP Midstream, Attn: Chandler Cole and email results to him

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1	9.20-10 7:40	1	2		2
3		3	4		4
5		5	Seal #	Preserved where applica	On Ice: 5.2

D17503: Chain of Custody
Page 1 of 1

ACCUTEST

Mountain States ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

Method Blank Summary

Job Number: D17503
Account: DCPMCODN DCP Midstream, LP
Project: AECCOL:Monument Booster Station 400128008

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V389-MB1	3V07176.D	1	09/20/10	DC	n/a	n/a	V3V389

The QC reported here applies to the following samples: **Method:** SW846 8260B

D17503-1, D17503-2, D17503-3, D17503-4, D17503-5, D17503-6, D17503-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
	m,p-Xylene	ND	4.0	0.60	ug/l	
95-47-6	o-Xylene	ND	2.0	0.60	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	89%	63-130%
2037-26-5	Toluene-D8	89%	68-130%
460-00-4	4-Bromofluorobenzene	86%	61-130%

Blank Spike Summary

Job Number: D17503
Account: DCPMCODN DCP Midstream, LP
Project: AECCOL:Monument Booster Station 400128008

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V389-BS1	3V07177.D	1	09/20/10	DC	n/a	n/a	V3V389

The QC reported here applies to the following samples: **Method:** SW846 8260B

D17503-1, D17503-2, D17503-3, D17503-4, D17503-5, D17503-6, D17503-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	52.1	104	70-130
100-41-4	Ethylbenzene	50	55.5	111	70-130
108-88-3	Toluene	50	51.9	104	70-140
	m,p-Xylene	50	47.1	94	55-134
95-47-6	o-Xylene	50	48.7	97	55-134

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	90%	63-130%
2037-26-5	Toluene-D8	88%	68-130%
460-00-4	4-Bromofluorobenzene	94%	61-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D17503
Account: DCPMCODN DCP Midstream, LP
Project: AECCOL:Monument Booster Station 400128008

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D17503-4MS	3V07182.D	1	09/20/10	DC	n/a	n/a	V3V389
D17503-4MSD	3V07183.D	1	09/20/10	DC	n/a	n/a	V3V389
D17503-4	3V07181.D	1	09/20/10	DC	n/a	n/a	V3V389

The QC reported here applies to the following samples: **Method:** SW846 8260B

D17503-1, D17503-2, D17503-3, D17503-4, D17503-5, D17503-6, D17503-7

CAS No.	Compound	D17503-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		50	55.1	110	54.4	109	1	59-132/30
100-41-4	Ethylbenzene	ND		50	56.9	114	56.8	114	0	68-130/30
108-88-3	Toluene	ND		50	54.7	109	54.7	109	0	56-142/30
	m,p-Xylene	ND		50	47.3	95	47.9	96	1	36-146/30
95-47-6	o-Xylene	ND		50	50.5	101	50.4	101	0	36-146/30

CAS No.	Surrogate Recoveries	MS	MSD	D17503-4	Limits
17060-07-0	1,2-Dichloroethane-D4	93%	88%	89%	63-130%
2037-26-5	Toluene-D8	89%	89%	91%	68-130%
460-00-4	4-Bromofluorobenzene	93%	90%	87%	61-130%