



DCP Midstream
370 17th Street, Suite 2500
Denver, CO 80202
303-595-3331
303-605-2226 FAX

September 1, 2011

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

**RE: 2nd Quarter 2011 Groundwater Monitoring Results
DCP Midstream, LP J-4-2 Pipeline Release (1RP-1728)
Unit C, Section 27, Township 19 South, Range 35 East
Lea County, New Mexico**

2011 SEP - 2 A 11: 1
RECEIVED OCD

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, a copy of the 2nd Quarter 2011 Groundwater Monitoring Results for the DCP J-4-2 Pipeline Release located in Lea County, New Mexico (Unit C, Section 27, Township 19 South, Range 35 East).

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me swweathers@dcpmidstream.com.

Sincerely

DCP Midstream, LP

Stephen Weathers, PG
Principal Environmental Specialist

cc: Larry Johnson, OCD Hobbs District Office (Copy on CD)
Environmental Files

August 26, 2011

Mr. Stephen Weathers
DCP Midstream, LP
370 17th Street, Suite 2500
Denver, CO 80202

Re: Summary of the Second Quarter 2011 Groundwater Monitoring Results for the
DCP J-4-2 Pipeline Release, Lea County New Mexico (**IRP-1728**)
Unit C, Section 27 Township 19 South, Range 35 East

Dear Mr. Weathers:

This report summarizes the second quarter 2011 groundwater monitoring activities that were completed at the J-4-2 release location on June 20, 2011 for DCP Midstream, LP. The site is located in the northeastern quarter of the northwestern quarter (Unit C) of Section 27, Township 19 South, Range 35 East approximately 3 miles south of the of intersection of US Highway 82 and State Highway 483 in Lea County New Mexico (Figure 1). The approximate coordinates are 32.639 degrees north and 103.447 degrees west.

The monitoring network includes the seven groundwater monitoring wells shown on Figure 2. Table 1 summarizes construction information for each well. Monitoring well MW-5 was not installed because of drilling refusal. Five wells were sampled. Wells MW-1 and MW-2 were not sampled because they contained free phase hydrocarbons (FPH).

GROUNDWATER SAMPLING

The depth to water and, if present, the FPH were measured in each well prior to completing the purging and sampling activities. The water-table elevations for the wells containing FPH were adjusted using the following formula:

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

- 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)

The fluid measurements for this event are summarized in Table 2. The corrected groundwater elevations for all monitoring episodes are summarized in Table 3. FPH was measured at a thickness of 0.19 feet in MW-1 and 0.20 feet in MW-2. The historic FPH thickness values are summarized in Table 4. The residual FPH thickness of less than 0.25 feet in both wells indicates that the majority of mobile FPH has been removed.

Wells MW-3, MW-4, MW-6, MW-7 and MW-8 were purged and sampled with dedicated bailers. Purging continued until a minimum of three casing volumes of water was removed and the field parameters temperature, pH and conductivity stabilized. The well purging forms are attached.

Unfiltered samples were collected following stabilization using the dedicated bailers. All samples were placed in an ice-filled chest immediately upon collection and delivered directly to Accutest Laboratories in Wheat Ridge, Colorado using standard chain-of-custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) by method SW846 8260B and chlorides by method SM 4500 CL. The laboratory report is attached.

RESULTS AND INTERPRETATIONS

A field duplicate sample was collected from MW-4. Matrix spike, matrix spike duplicate samples were collected from MW-7. The QA/QC evaluation included:

- All samples were analyzed within the method holding times.
- All of the individual surrogate spikes were within their control limits.
- The method blanks and blank spikes were all within their respective control limits.
- The matrix spike and matrix spike duplicate results from MW-7 were all within their respective control limits.
- There were no BTEX detects in the trip blank or the primary and field duplicate samples from MW-4.
- The 2.2 relative percentage difference for chlorides between the primary and duplicate samples from MW-4 is acceptable.

The above information indicates that the data is suitable for evaluating groundwater monitoring data.

The laboratory analyses from this sampling event are summarized in Table 5. The New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are reproduced at the top of Table 5. The constituents that exceed these standards are highlighted as bold text. Tables 6, 7, 8 and 9 summarize all of the data collected during this project for benzene, toluene, ethylbenzene and xylenes respectively. Table 10 summarizes the chloride data.

Groundwater Flow

Figure 3 shows the hydrographs for the corrected water-table elevations for the site wells. The water table declined approximately 1 foot over the entire site between the first and second quarterly monitoring events. The water table is now at the lowest elevation since the start of the project in 2006.

The water table elevation contours for this event are shown on Figure 4. Groundwater flow is toward the southeast at a consistent gradient. The groundwater flow direction has remained constant over the duration of the project.

Groundwater Chemistry

Examination of Table 5 shows that none of the BTEX constituents were detected in wells MW-3 to MW-8. The benzene concentrations are plotted on Figure 5 along with wells MW-1 and MW-2 that contained FPH. Comparison of Figure 4 with Figure 5 demonstrates that any dissolved-phase BTEX constituents from MW-1 and MW-2 attenuate to concentrations that are below the method reporting limits before reaching MW-7 or MW-8.

It is also important to note that:

1. The toluene, ethylbenzene and total xylenes concentrations have never exceeded the NMWQCC standards in wells MW-3 through MW-8;
2. Benzene has not been detected in MW-4 since March 2007; and
3. Benzene has never been detected in down-gradient boundary wells MW-6, MW-7 and MW-8.

Examination of Table 10 indicates that the chloride concentrations in all wells have exceeded the NMWQCC groundwater standard of 250 mg/l except for the fourth quarter 2008 value from MW-4 which was anomalously low. The chloride concentrations are plotted versus the sampling dates on Figure 6. The chloride concentrations continue to remain relatively constant.

A chloride isopleth map generated from data for this event is included as Figure 7. The chloride distribution continues to indicate a source to the west and outside of the DCP release area. This pattern has remained constant throughout the duration of the project.

CONCLUSIONS AND RECOMMENDATIONS

Based upon the data collected to date, AEC concludes that:

1. Groundwater flow remains constant toward the southeast;
2. The residual FPH is probably immobile and only a minimal volume remains given the historic remediation activities;
3. The presence of dissolved phase BTEX constituents appears to be limited to the original release area;
4. The dissolved-phase hydrocarbon plume associated with the DCP J-4-2 pipeline release is either stable or contracting;
5. The data from this event continue to confirm that the chlorides in the groundwater did not originate from the DCP release.

The next groundwater-monitoring event is scheduled for the third quarter of 2011. Do not hesitate to contact me if you have any questions or comments on this letter.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

Michael H. Stewart, P.E., C.P.G.
Principal Engineer

MHS/tbm

attachment

TABLES

Table 1 – Summary of Monitoring Well Completions at the J-4-2 Site

Name	Date Installed	Stickup	Casing Diameter (inches)	Total Depth (btoc)	Screen Interval (ground)	Sand Interval
MW-1	2/06	3.17	2	43.05	19-39	17-39
MW-2	2/06	3.08	4	43.30	19-39	17-39
MW-3	2/06	3.21	2	43.00	19-39	17-39
MW-4	9/06	3.12	2	38.12	20-35	18-35
MW-5	Not installed because of drilling refusal					
MW-6	9/06	3.32	2	38.32	20-35	18-35
MW-7	9/06	2.95	2	39.45	21.5-36.5	19.5-36.5
MW-8	9/06	3.32	2	38.32	20-35	18-35

All units are feet except as noted
 btoc: Below top of casing

Table 2 - Summary of Second Quarter 2011 Fluid Measurements

Well	Depth to Water	Depth to Free Phase Hydrocarbons	Corrected Groundwater Elevation
MW-1	29.50	29.31	3711.09
MW-2	30.55	30.35	3710.22
MW-3	28.76		3710.63
MW-4	29.12		3711.12
MW-6	29.81		3710.15
MW-7	33.14		3707.59
MW-8	31.32		3706.00

Units are feet

Table 3 - Summary of Water Table Elevations for the J-4-2 Site

Well	2/15/06	9/25/06	12/21/06	3/14/07	6/26/07	9/25/07	11/30/07	3/20/08
MW-1	3713.61	3712.60	3712.63	3712.29	3712.15	3711.86	3712.42	3713.48
MW-2	3713.93	3713.48	3712.49	3712.75	3712.63	3712.34	3712.91	3713.40
MW-3	3713.36	3712.57	3712.57	3712.55	3712.79	3711.50	3712.09	3713.30
MW-4		3712.80	3712.82	3712.78	3713.25	3712.98	3713.48	3713.70
MW-6		3711.76	3712.00	3711.96	3711.87	3711.56	3711.92	3712.53
MW-7		3711.03	3710.80	3710.73	3710.50	3709.87	3710.33	3711.38
MW-8		3709.22	3708.95	3708.79	3708.54	3708.06	3708.33	3709.17

Well	6/27/08	9/16/08	12/3/08	3/11/09	5/18/09	9/24/09	12/20/09	3/10/10	6/13/10
MW-1	NM	NM	3711.94	3712.19	3712.05	3711.48	3711.50	3711.45	3711.31
MW-2	NM	NM	3712.14	3711.99	3711.87	3711.28	3711.17	NM	3710.89
MW-3	3713.09	3712.34	3712.25	3712.10	3711.90	3711.35	3711.28	3711.19	3711.01
MW-4	3713.13	3712.18	3712.10	3712.36	3712.13	3711.69	3711.61	3711.56	3711.41
MW-6	3712.20	3711.86	3711.70	3711.57	3711.42	3711.22	3710.72	3710.67	3710.61
MW-7	3710.95	3710.11	3710.00	3709.84	3709.51	3708.55	3708.37	3708.35	3708.11
MW-8	3708.78	3708.23	3708.13	3707.95	3708.10	3706.79	3706.73	3706.71	3707.46

Well	9/28/10	12/8/10	3/30/11	6/20/11
MW-1	3711.65	3711.66	3711.69	3711.09
MW-2	3711.12	3711.14	3711.35	3710.22
MW-3	3711.24	3711.25	3711.25	3710.63
MW-4	3711.64	3711.72	3711.77	3711.12
MW-6	3710.56	3710.71	3710.91	3710.15
MW-7	3708.23	3708.28	3708.36	3707.59
MW-8	3706.62	3706.70	3706.69	3706.00

Units are feet

Blank cells: wells not installed

NM: Not measured because of probe malfunction.

Table 4 – Summary of Free Phase Hydrocarbon Thickness Values for MW-1 and MW-2

Date	MW-1	MW-2
02/15/06	0.00	0.57
09/25/06	0.00	0.15
12/21/06	0.09	0.13
03/14/07	0.07	0.10
06/26/07	0.09	0.00
09/25/07	0.09	0.03
11/30/07	0.00	0.00
03/20/08	0.00	0.00
06/27/08	0.04	0.01
09/16/08	0.08	0.02
12/03/08	0.21	0.17
03/11/09	0.32	0.27
05/18/09	0.35	0.26
09/24/09	0.29	0.24
12/20/09	0.00	0.05
03/10/10	0.03	0.04
06/13/10	0.00	0.05
09/29/10	0.40	0.20
12/08/10	0.39	0.25
03/30/11	0.16	0.10
06/20/11	0.19	0.20

Units are feet

Table 5 - Summary of Second Quarter 2011 Groundwater Results

Well	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Chlorides
NMWQCC Groundwater Standard	0.01	0.75	0.75	0.62	250
MW-3	<0.001	<0.002	<0.002	<0.004	2210
MW-4	<0.001	<0.002	<0.002	<0.004	2230
MW-6	<0.001	<0.002	<0.002	<0.004	503
MW-7	<0.001	<0.002	<0.002	<0.004	1210
MW-8	<0.001	<0.002	<0.002	<0.004	444
MW-8 DUP	<0.001	<0.002	<0.002	<0.004	454
Trip Blank	<0.001	<0.002	<0.002	<0.004	NA

Notes: Units are mg/l,
 MW-1 and MW-2 were not sampled because free phase hydrocarbons were present
 MW-5 was not installed because of drilling refusal
 NMWQCC: New Mexico Water Quality Control Commission
 Values above the NMWQCC standard are highlighted as bold text.
 NA: not analyzed

Table 6 – Summary of Benzene Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08	3/11/09	5/18/09	9/24/09
MW-1	0.139	0.0487	FPH	FPH	FPH	0.011	0.107	0.037	FPH	FPH	FPH	FPH	FPH	FPH
MW-2	0.026	0.0045	0.006	0.188	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.001	<0.002	<0.002	<0.002	0.003	<0.001	0.0011J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	NI	0.0086	0.025	0.004	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Well	12/20/09	3/10/10	6/13/10	9/29/10	12/8/10	3/30/11	6/20/11
MW-1	<0.002	FPH	0.0016	FPH	FPH	FPH	FPH
MW-2	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.002	<0.001	<0.0003	<0.001	<0.001	<0.001	<0.001
MW-4	<0.002	<0.001	<0.0003	<0.001	<0.001	<0.001	<0.001
MW-6	<0.002	NA	<0.0003	<0.001	<0.001	<0.001	<0.001
MW-7	<0.002	<0.001	<0.0003	<0.001	<0.001	<0.001	<0.001
MW-8	<0.002	<0.001	<0.0003	<0.001	<0.001	<0.001	<0.001

Notes: Units are mg/l,
 MW-5 was not installed
 Duplicates are averaged together
 J modifiers are not included in this table
 FPH: Free phase hydrocarbons present so well not sampled
 NI: Well not installed
 NA: Not analyzed due to well obstruction

Table 7 – Summary of Toluene Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08	3/11/09	5/18/09	9/24/09
MW-1	0.326	0.0058	FPH	FPH	FPH	0.003	0.024	0.0155	FPH	FPH	FPH	FPH	FPH	FPH
MW-2	0.038	<0.001	0.003	0.006	FPH	FPH	FPH							
MW-3	<0.001	<0.002	<0.002	<0.002	0.005	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	NI	0.00093J	0.005	6E-04	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Well	12/20/09	3/10/10	6/13/10	9/29/10	12/8/10	3/30/11	6/20/11
MW-1	<0.002	FPH	<0.001	FPH	FPH	FPH	FPH
MW-2	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.002	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002
MW-4	<0.002	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002
MW-6	<0.002	NA	<0.001	<0.002	<0.002	<0.002	<0.002
MW-7	<0.002	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002
MW-8	<0.002	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002

Notes: Units are mg/l,
 MW-5 was not installed
 Duplicates are averaged together
 J modifiers are not included in this table
 FPH: Free phase hydrocarbons present so well not sampled
 NI: Well not installed
 NA: Not analyzed due to well obstruction

Table 8 – Summary of Ethylbenzene Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08	3/11/09	5/18/09	9/24/09
MW-1	0.34	0.0284	FPH	FPH	FPH	0.004	0.04	0.014	FPH	FPH	FPH	FPH	FPH	FPH
MW-2	0.04	0.0027	0.003	0.026	FPH	FPH	FPH							
MW-3	<0.001	<0.002	<0.002	<0.002	0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	NI	0.0092	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Well	12/20/09	3/10/10	6/13/10	9/29/10	12/8/10	3/30/11	6/20/11
MW-1	0.0014J	FPH	<0.0003	FPH	FPH	FPH	FPH
MW-2	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.002	<0.002	<0.0003	<0.002	<0.002	<0.002	<0.002
MW-4	<0.002	<0.002	<0.0003	<0.002	<0.002	<0.002	<0.002
MW-6	<0.002	NA	<0.0003	<0.002	<0.002	<0.002	<0.002
MW-7	<0.002	<0.002	<0.0003	<0.002	<0.002	<0.002	<0.002
MW-8	<0.002	<0.002	<0.0003	<0.002	<0.002	<0.002	<0.002

Notes: Units are mg/l,
 MW-5 was not installed
 Duplicates are averaged together
 J modifiers are not included in this table
 FPH: Free phase hydrocarbons present so well not sampled
 NI: Well not installed
 NA: Not analyzed due to well obstruction

Table 9 – Summary of Total Xylenes Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08	3/11/09	5/18/09	9/24/09
MW-1	0.31	0.0694	FPH	FPH	FPH	0.098	0.39	0.215	FPH	FPH	FPH	FPH	FPH	FPH
MW-2	0.335	0.0471	0.0613	0.125	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.002	<0.006	<0.006	<0.006	0.01	<0.001	<0.006	<0.006	0.007	<0.006	<0.006	<0.002	<0.002	<0.006
MW-4	NI	0.0061	0.0065	0.003	0.003	<0.001	<0.006	<0.006	<0.006	0.0041J	<0.006	<0.002	<0.002	<0.006
MW-6	NI	<0.006	<0.006	<0.006	<0.001	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006	<0.002	<0.002	<0.006
MW-7	NI	<0.006	<0.006	<0.006	0.003	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006	<0.002	<0.002	<0.006
MW-8	NI	<0.006	<0.006	<0.006	<0.001	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006	<0.002	<0.002	<0.006

Well	12/20/09	3/10/10	6/13/10	9/29/10	12/8/10	3/30/11	6/20/11
MW-1	0.0418	FPH	0.0095	FPH	FPH	FPH	FPH
MW-2	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.006	<0.004	<0.0006	<0.004	<0.004	<0.004	<0.004
MW-4	<0.006	<0.004	<0.0006	<0.004	<0.004	<0.004	<0.004
MW-6	<0.006	NA	<0.0006	<0.004	<0.004	<0.004	<0.004
MW-7	<0.006	<0.004	<0.0006	<0.004	<0.004	<0.004	<0.004
MW-8	<0.006	<0.004	<0.0006	<0.004	<0.004	<0.004	<0.004

Notes: Units are mg/l,
 MW-5 was not installed
 Duplicates are averaged together
 J modifiers are not included in this table
 FPH: Free phase hydrocarbons present so well not sampled
 NI: Well not installed
 NA: Not analyzed due to well obstruction

Table 10 – Summary of Chlorides Groundwater Data

Well	3/14/07	6/26/07	9/16/08	12/3/08	3/11/09	5/18/09	9/24/09	12/20/09	3/10/10	6/13/10	9/29/10	12/8/10	3/30/11	6/20/11
MW-1	FPH	2,680	FPH	1,800	FPH	FPH	FPH	FPH						
MW-3	7,800	10,800	4,070	2,625	2,860	3,270	3,195	3,605	3,030	2,130	2,220	2,530	2,230	2,210
MW-4	1,300	1,380	1,440	70	1,390	1,440	1,490	1,740	1,950	2,150	2,130	2,470	2,300	2,230
MW-6	669	544	537	391	363	383	373	1,090	NA	533	445	513	491	503
MW-7	1,230	1,150	1,180	1,050	944	1,090	1,140	1,440	1,230	1,280	1,210	1,180	1,210	1,210
MW-8	609	617	735	480	417	378	403	308	414	415	347	336	383	449

Notes: Units are mg/l
 Duplicates are averaged together
 NA: Not analyzed due to well obstruction

FIGURES

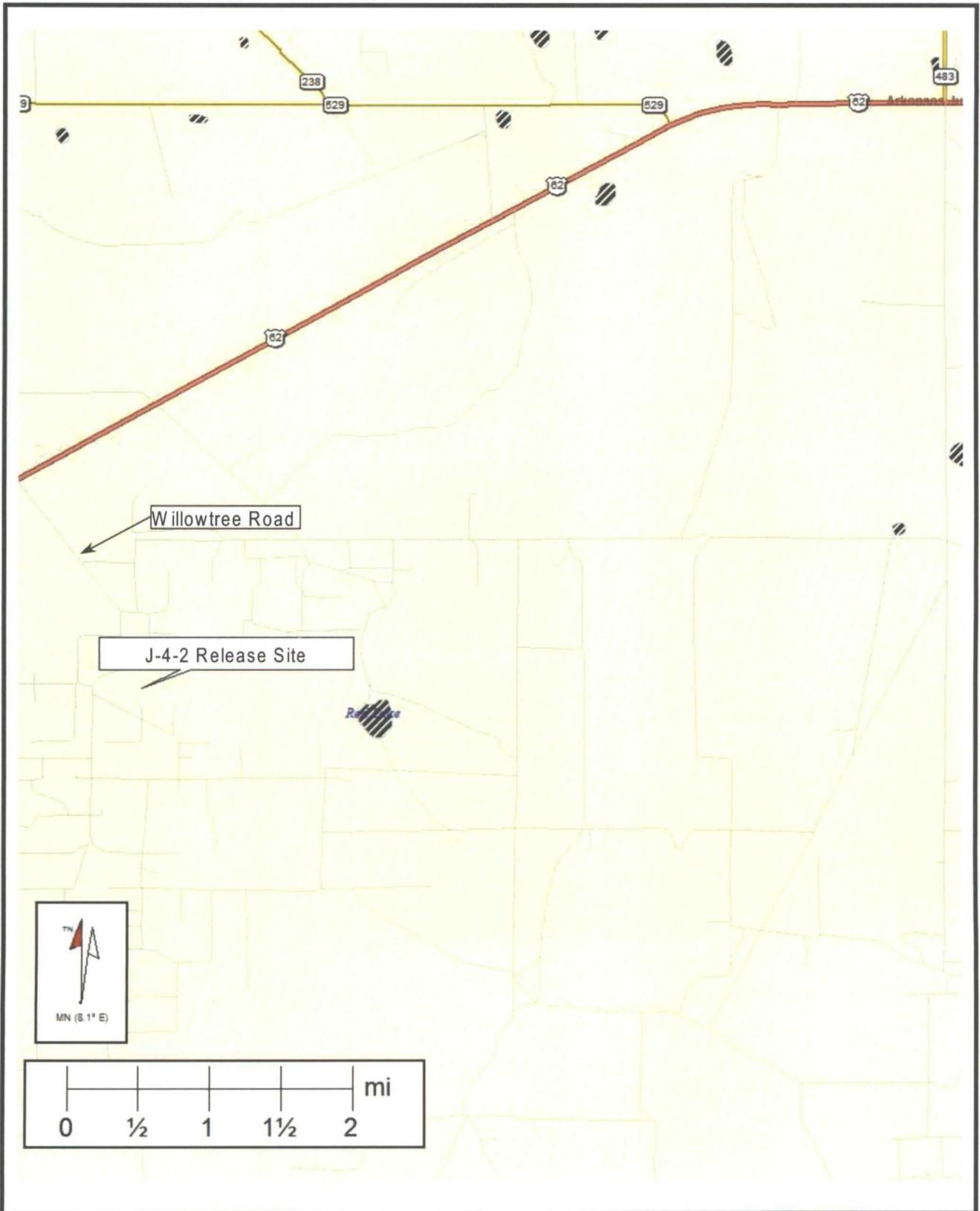


Figure 1 – Site Location
 J-4-2 Groundwater Monitoring



DRAWN BY: MHS
REVISED:
DATE: 5/06

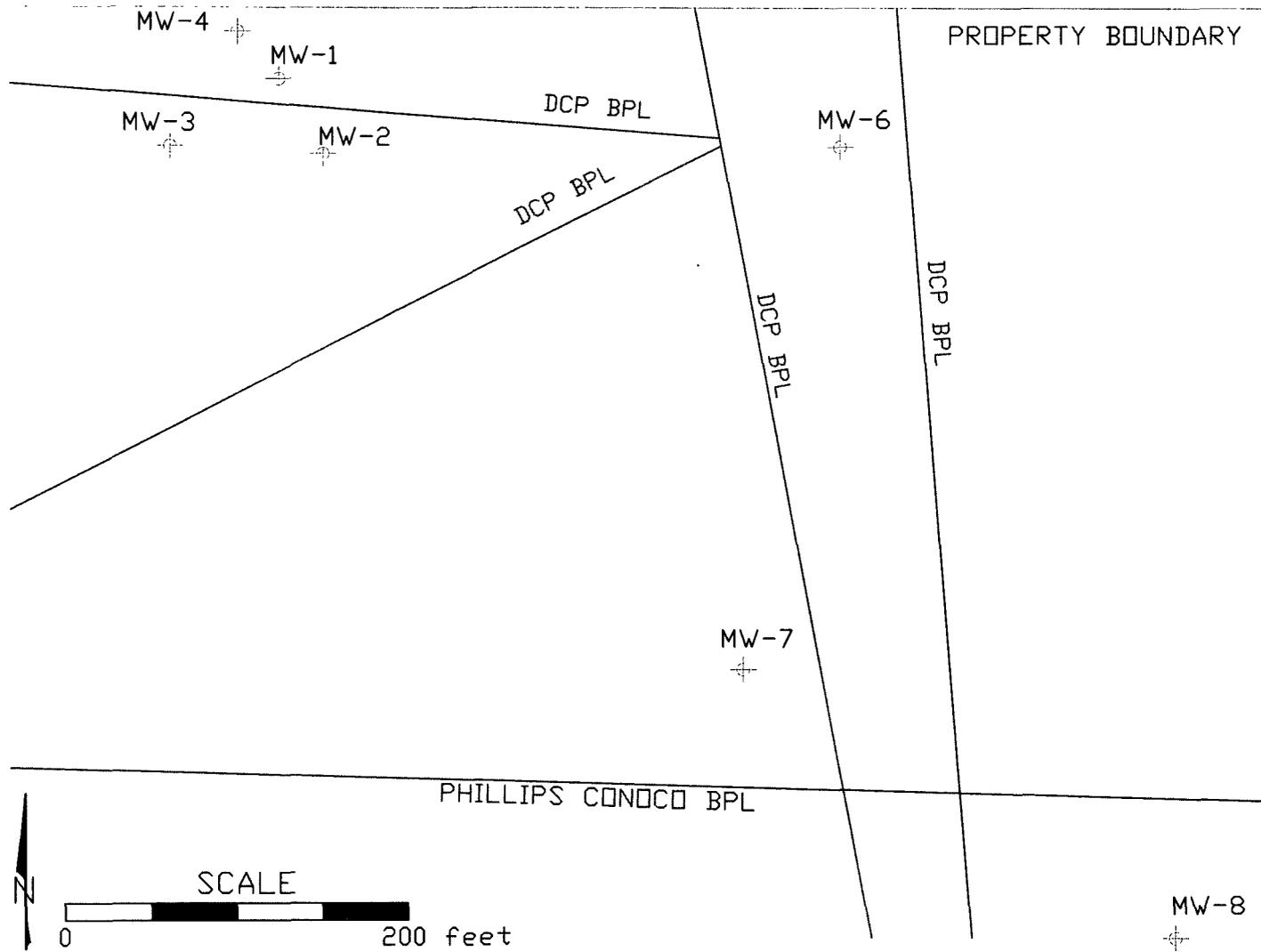


Figure 2 - Site Details

J-4-2 Groundwater Monitoring



DRAWN BY: MHS

REVISED:

DATE: 8/10

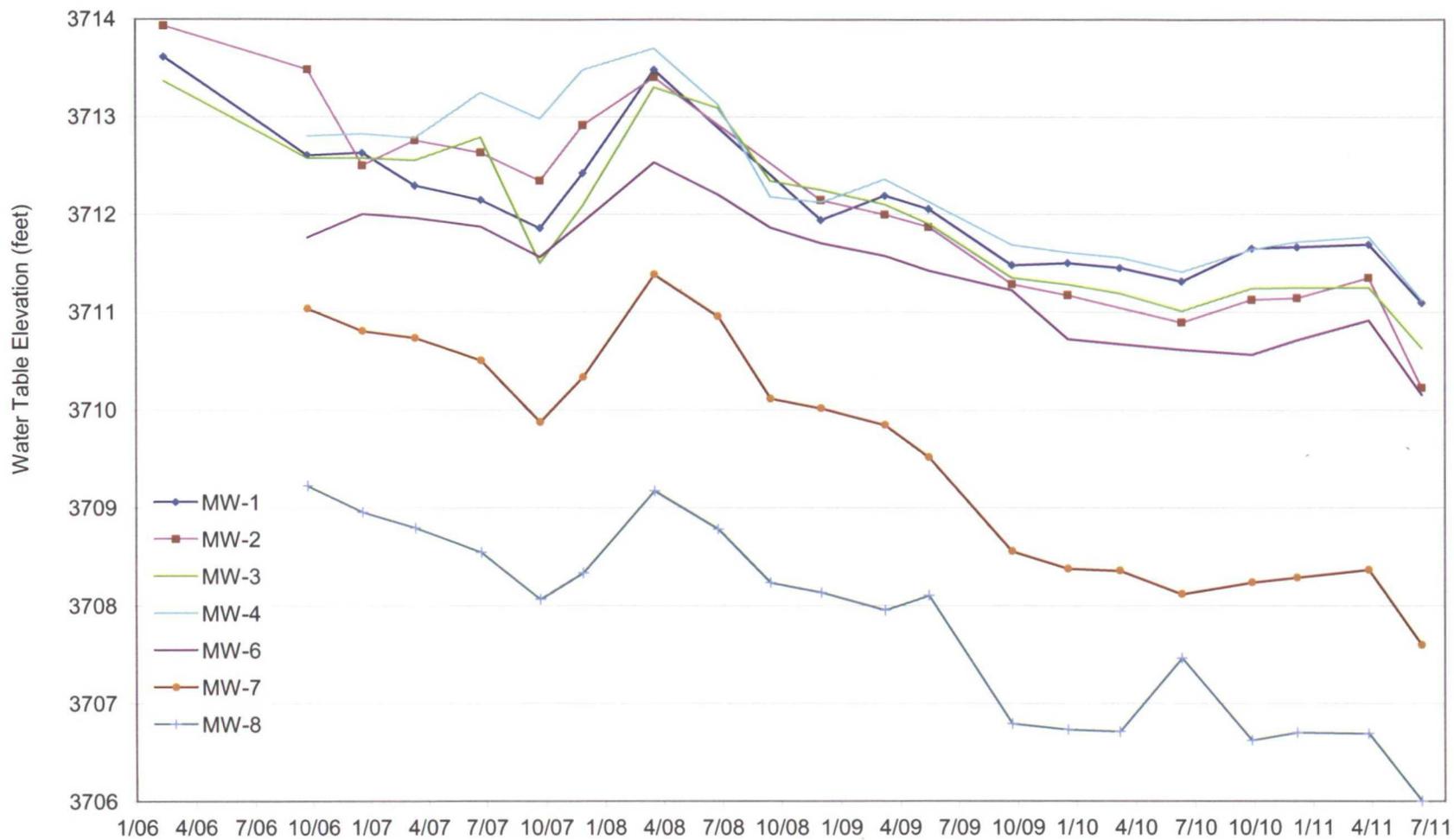
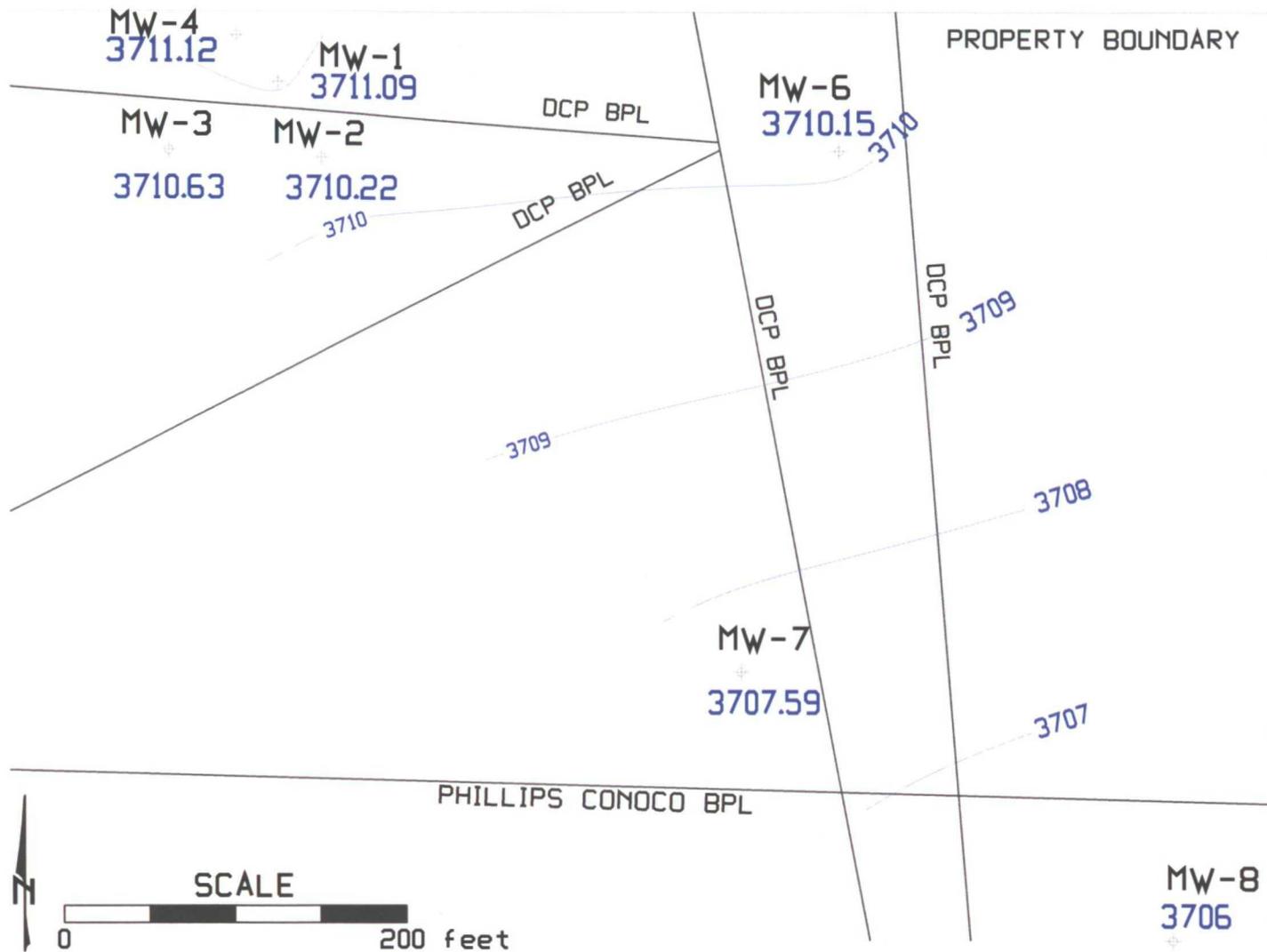


Figure 3 – Monitoring Well Hydrographs

J-4-2 Groundwater Monitoring



DRAWN BY: MHS
DATE: 8/11



Contour interval is 1 foot

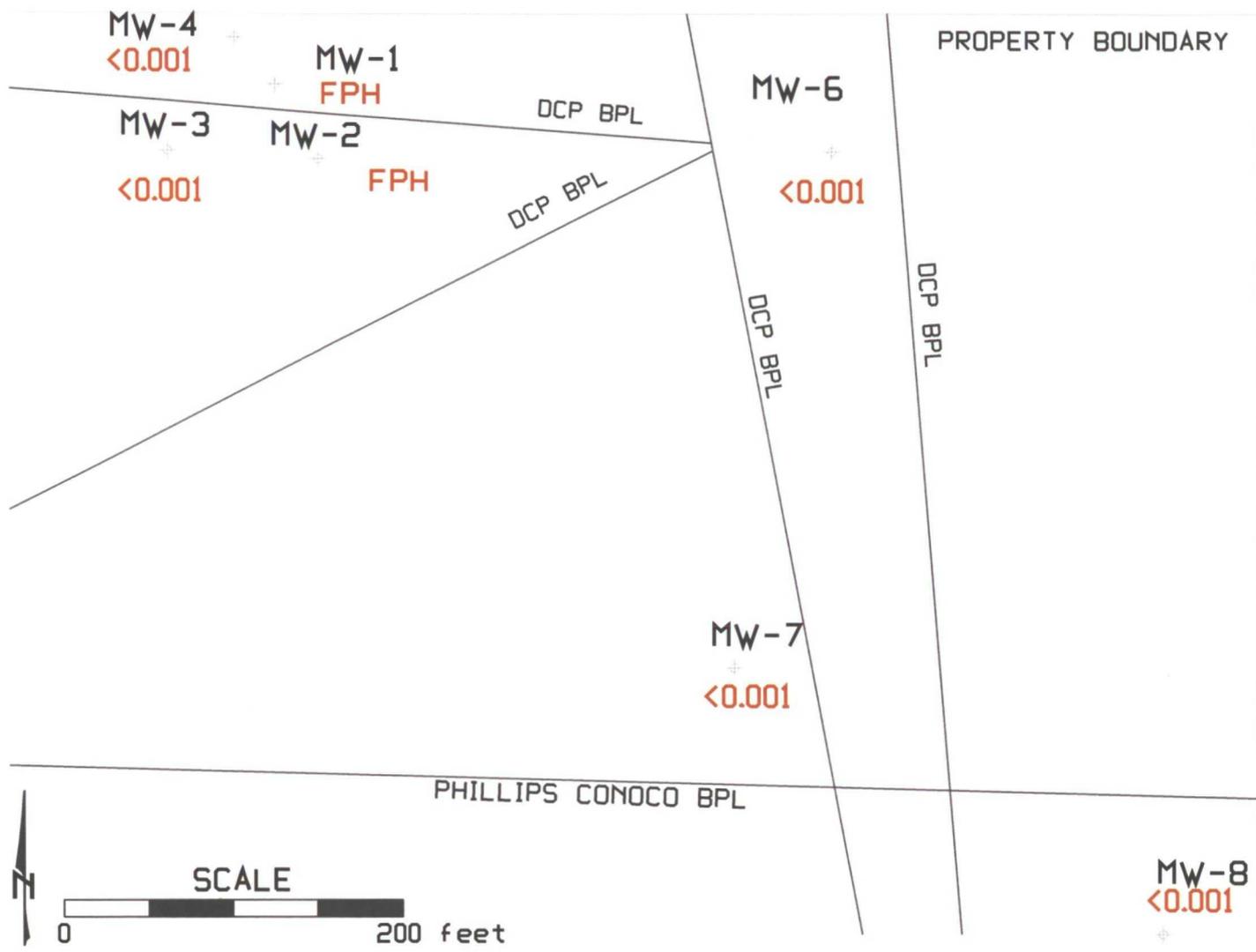
Figure 4 -Second Quarter 2011 Water Table Contours
J-4-2 Groundwater Monitoring



DRAWN BY: MHS

REVISED:

DATE: 8/11



Units are mg/l

Figure 5 -Second Quarter 2011 Benzene Concentrations

J-4-2 Groundwater Monitoring



DRAWN BY: MHS

REVISED:

DATE: 8/11

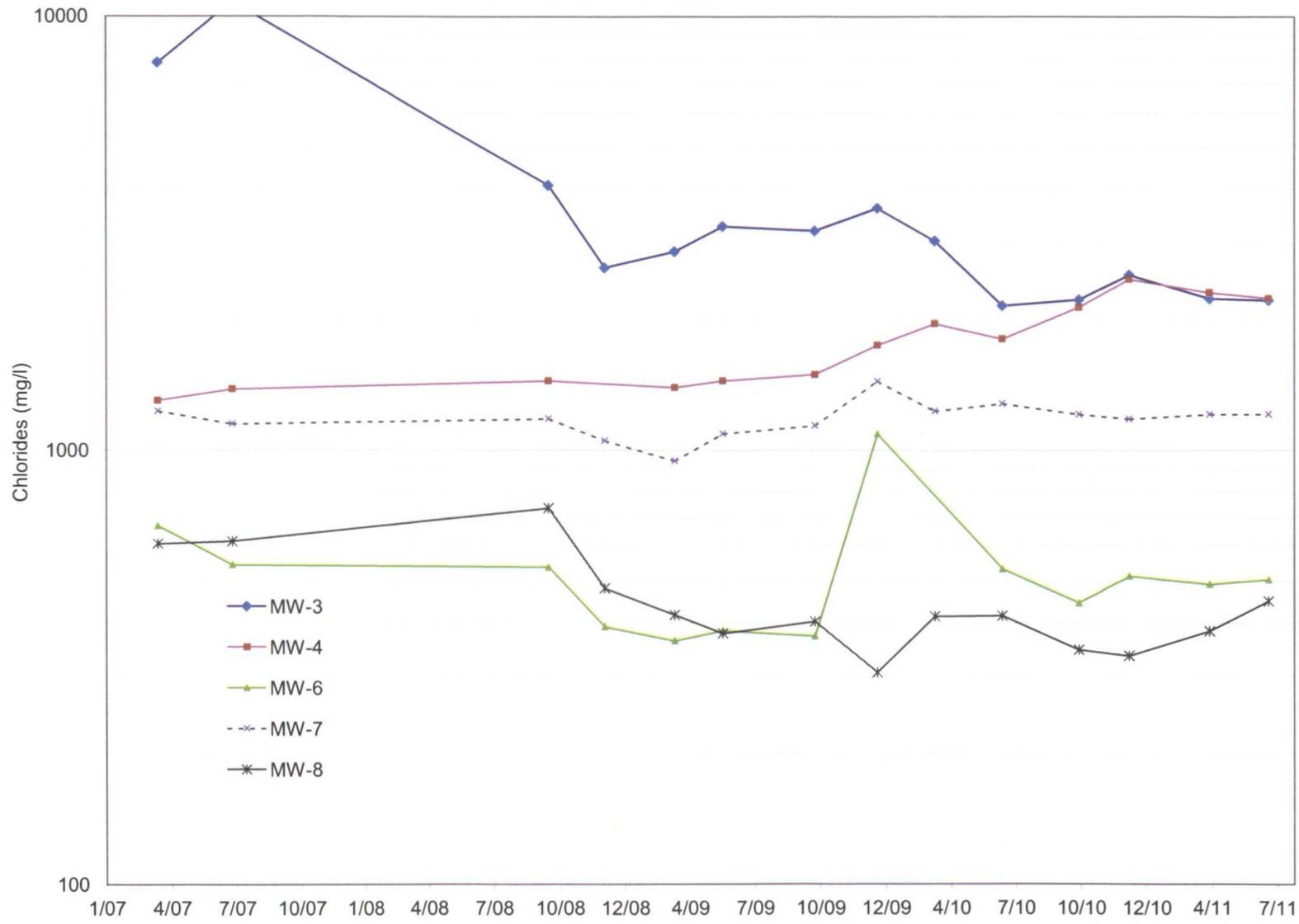
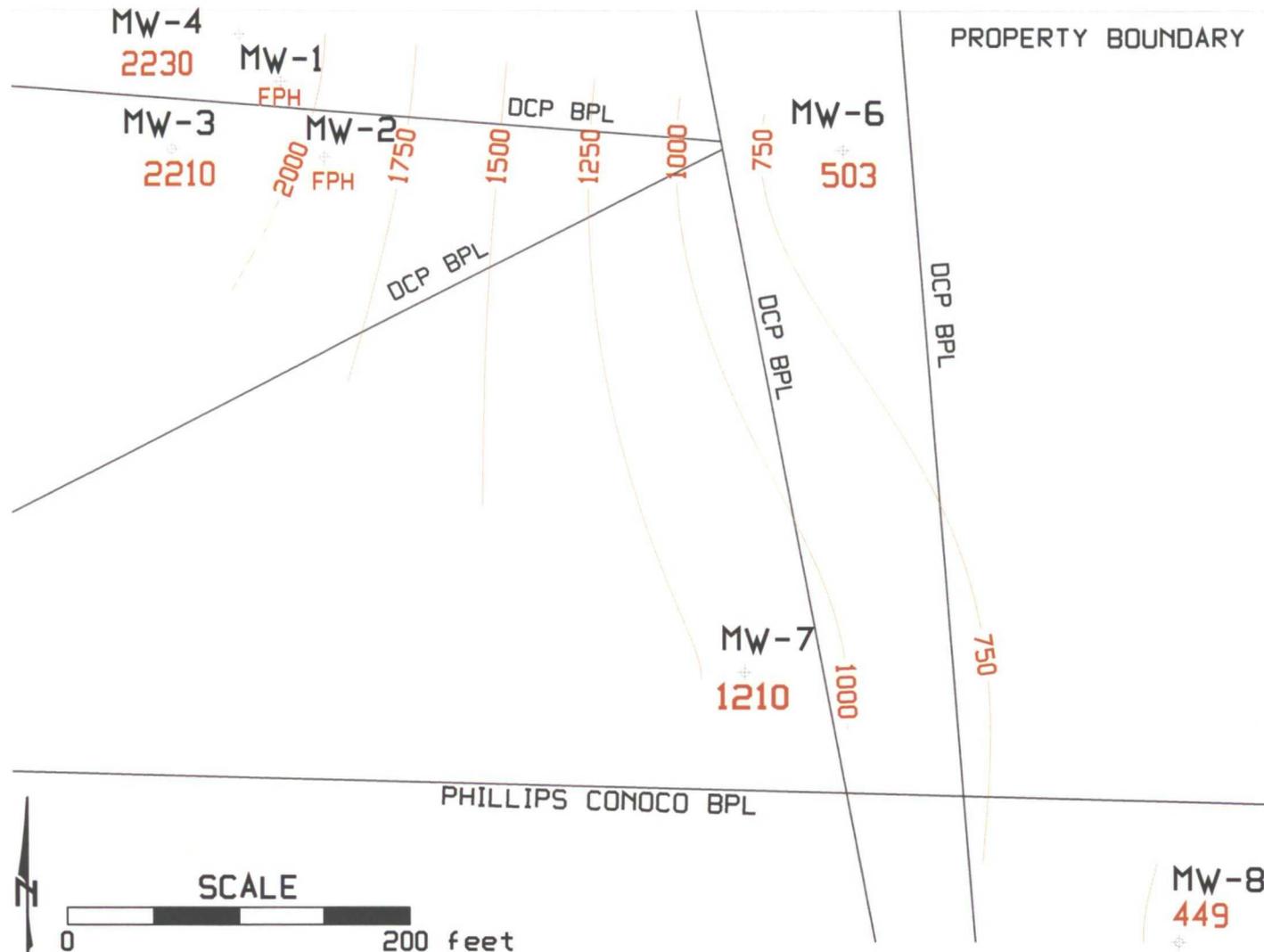


Figure 6 – Chloride Concentrations Verses Sampling Date
 J-4-2 Groundwater Monitoring
 dcp Midstream.
 DRAWN BY: MHS
 DATE: 8/11



Units are mg/l
 Contour interval is 250 mg/l
 FPH No Sample because of free phase hydrocarbons

Figure 7 - Second Quarter 2011 Chloride Isopleths

J-4-2 Groundwater Monitoring



DRAWN BY: MHS

REVISED:

DATE: 8/11

**WELL SAMPLING DATA
AND LABORATORY ANALYTICAL REPORT**

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-1
 SITE NAME: J 4 2 DATE: 6/20/2011
 PROJECT NO. _____ SAMPLER: N Quevedo

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: 29.50 Feet
 HEIGHT OF WATER COLUMN: 13.80 Feet
 WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
0.0 : Total volume purged							

SAMPLE NO.: MW-1
 ANALYSES: _____
 COMMENTS: Not sampled FPH

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-4
 SITE NAME: J 4 2 DATE: 6/20/2011
 PROJECT NO. _____ SAMPLER: N Quevedo

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: 38.12 Feet
 DEPTH TO WATER: 29.12 Feet
 HEIGHT OF WATER COLUMN: 9.00 Feet
 WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.6	21.6	1.94	7.39			
	3.2	21.3	1.94	7.38			
	4.8	21.5	1.94	7.38			
4.8						: Total volume purged	

SAMPLE NO.: MW-4
 ANALYSES: BTEX (8260)
 COMMENTS: Duplicate sample collected

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-6
 SITE NAME: J 4 2 DATE: 6/20/2011
 PROJECT NO. _____ SAMPLER: N Quevedo

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: 34.35 Feet
 DEPTH TO WATER: 29.81 Feet
 HEIGHT OF WATER COLUMN: 4.54 Feet
 WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.4	21	1.29	7.56			
	2.8	21.2	1.29	7.54			
	4.2	21.1	1.29	7.50			
4.2						: Total volume purged	

SAMPLE NO.: _____
 ANALYSES: BTEX (8260)
 COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-7
 SITE NAME: J 4 2 DATE: 6/20/2011
 PROJECT NO. _____ SAMPLER: N Quevedo

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: 39.45 Feet
 DEPTH TO WATER: 33.14 Feet
 HEIGHT OF WATER COLUMN: 6.31 Feet
 WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.2	22.7	2.26	7.49			
	2.4	22.1	2.27	7.50			
	3.6	21.0	2.26	7.45			
3.6						: Total volume purged	

SAMPLE NO.: MW-7
 ANALYSES: BTEX (8260)
 COMMENTS: Collected MS/MSD

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-8
 SITE NAME: J 4 2 DATE: 6/20/2011
 PROJECT NO. _____ SAMPLER: N Quevedo

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:

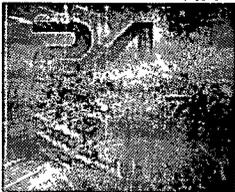
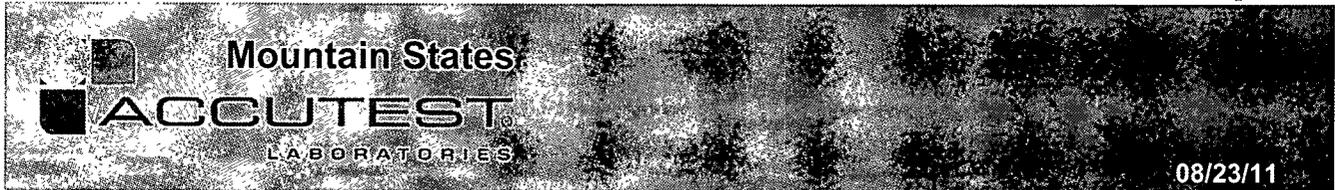
Gloves Alconox Distilled Water Rinse Other: _____

TOTAL DEPTH OF WELL: 38.32 Feet
 DEPTH TO WATER: 31.32 Feet
 HEIGHT OF WATER COLUMN: 7.00 Feet
 WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.3	21.4	1.32	7.49			
	2.6	21.0	1.32	7.48			
	3.9	21.0	1.32	7.49			
3.9						: Total volume purged	

SAMPLE NO.: MW-8
 ANALYSES: BTEX (8260)
 COMMENTS: _____



Technical Report for

DCP Midstream, LP

AECCOL: J-4-2 Proj#390660601

RC-GN00

Accutest Job Number: D24763

Sampling Date: 06/20/11

Report to:

American Environmental Consulting, LLC

mstewart@aecdenver.com

ATTN: Michael Stewart

Total number of pages in report: 29



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)

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Test results relate only to samples analyzed.

Table of Contents

Sections:



Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: D24763-1: MW-3	6
3.2: D24763-2: MW-4	8
3.3: D24763-3: MW-6	10
3.4: D24763-4: MW-7	12
3.5: D24763-5: MW-8	14
3.6: D24763-6: DUP	16
3.7: D24763-7: TRIP BLANK	18
Section 4: Misc. Forms	19
4.1: Chain of Custody	20
Section 5: GC/MS Volatiles - QC Data Summaries	22
5.1: Method Blank Summary	23
5.2: Blank Spike Summary	24
5.3: Matrix Spike/Matrix Spike Duplicate Summary	25
Section 6: General Chemistry - QC Data Summaries	26
6.1: Method Blank and Spike Results Summary	27
6.2: Matrix Spike Results Summary	28
6.3: Matrix Spike Duplicate Results Summary	29



Sample Summary

DCP Midstream, LP

Job No: D24763

AECCOL: J-4-2 Proj#390660601

Project No: RC-GN00

Sample Number	Collected		Received	Matrix Code	Type	Client Sample ID
	Date	Time By				
D24763-1	06/20/11	16:00 NQ	06/23/11	AQ	Ground Water	MW-3
D24763-2	06/20/11	16:20 NQ	06/23/11	AQ	Ground Water	MW-4
D24763-3	06/20/11	17:00 NQ	06/23/11	AQ	Ground Water	MW-6
D24763-4	06/20/11	17:20 NQ	06/23/11	AQ	Ground Water	MW-7
D24763-4D	06/20/11	17:20 NQ	06/23/11	AQ	Water Dup/MSD	MW-7
D24763-4M	06/20/11	17:20 NQ	06/23/11	AQ	Water Matrix Spike	MW-7
D24763-5	06/20/11	17:50 NQ	06/23/11	AQ	Ground Water	MW-8
D24763-6	06/20/11	00:00 NQ	06/23/11	AQ	Ground Water	DUP
D24763-7	06/20/11	00:00 NQ	06/23/11	AQ	Ground Water	TRIP-BLANK



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: DCP Midstream, LP

Job No D24763

Site: AECCOL: J-4-2 Proj#390660601

Report Date 6/30/2011 5:04:20 PM

On 06/23/2011, 7 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 5.9 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D24763 was assigned to the project. The lab sample ID, client sample ID, and date 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: V7V392
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D24763-4MS, D24763-4MSD were used as the QC samples indicated.

Wet Chemistry By Method EPA 300/SW846 9056

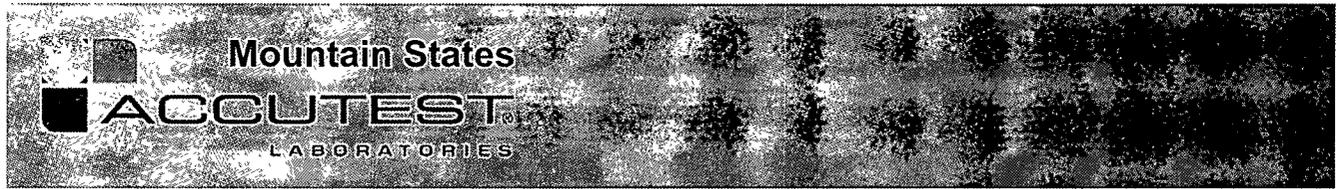
Matrix AQ	Batch ID: GP4758
------------------	-------------------------

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D24741-1MS, D24741-1MSD were used as the QC samples for the Chloride analysis.

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.



Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW-3	Date Sampled: 06/20/11
Lab Sample ID: D24763-1	Date Received: 06/23/11
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOL: J-4-2 Proj#390660601	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V07411.D	1	06/24/11	DC	n/a	n/a	V7V392
Run #2							

Run #	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	0.00025	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00050	mg/l	
1330-20-7	Xylene (total)	ND	0.0040	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		63-130%
2037-26-5	Toluene-D8	102%		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

31
3

Client Sample ID: MW-3	Date Sampled: 06/20/11
Lab Sample ID: D24763-1	Date Received: 06/23/11
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: AECCOL: J-4-2 Proj#390660601	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2210	50	mg/l	100	06/24/11 09:43	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

3.4

Client Sample ID: MW-4 Lab Sample ID: D24763-2 Matrix: AQ - Ground Water Method: SW846 8260B Project: AECCOL: J-4-2 Proj#390660601	Date Sampled: 06/20/11 Date Received: 06/23/11 Percent Solids: n/a
--	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V07412.D	1	06/24/11	DC	n/a	n/a	V7V392
Run #2							

Run #	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	0.00025	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00050	mg/l	
1330-20-7	Xylene (total)	ND	0.0040	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		63-130%
2037-26-5	Toluene-D8	102%		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

Report of Analysis

3.2
3

Client Sample ID: MW-4	Date Sampled: 06/20/11
Lab Sample ID: D24763-2	Date Received: 06/23/11
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: AECCOL: J-4-2 Proj#390660601	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2230	50	mg/l	100	06/24/11 09:54	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-6 Lab Sample ID: D24763-3 Matrix: AQ - Ground Water Method: SW846 8260B Project: AECCOL: J-4-2 Proj#390660601	Date Sampled: 06/20/11 Date Received: 06/23/11 Percent Solids: n/a
--	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V07413.D	1	06/24/11	DC	n/a	n/a	V7V392
Run #2							

Run #	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	0.00025	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00050	mg/l	
1330-20-7	Xylene (total)	ND	0.0040	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		63-130%
2037-26-5	Toluene-D8	102%		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

33
3

Client Sample ID:	MW-6	Date Sampled:	06/20/11
Lab Sample ID:	D24763-3	Date Received:	06/23/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOL: J-4-2 Proj#390660601		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	503	10	mg/l	20	06/24/11 10:05	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-7	Date Sampled: 06/20/11
Lab Sample ID: D24763-4	Date Received: 06/23/11
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOL: J-4-2 Proj#390660601	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V07408.D	1	06/24/11	DC	n/a	n/a	V7V392
Run #2							

Run #	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	0.00025	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00050	mg/l	
1330-20-7	Xylene (total)	ND	0.0040	0.0020	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	102%		68-130%
460-00-4	4-Bromofluorobenzene	88%		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

3.4
3

Client Sample ID:	MW-7	Date Sampled:	06/20/11
Lab Sample ID:	D24763-4	Date Received:	06/23/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOL: J-4-2 Proj#390660601		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1210	25	mg/l	50	06/24/11 10:16	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis



Client Sample ID: MW-8 Lab Sample ID: D24763-5 Matrix: AQ - Ground Water Method: SW846 8260B Project: AECCOL: J-4-2 Proj#390660601	Date Sampled: 06/20/11 Date Received: 06/23/11 Percent Solids: n/a
--	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V07414.D	1	06/24/11	DC	n/a	n/a	V7V392
Run #2							

Run #	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	0.00025	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00050	mg/l	
1330-20-7	Xylene (total)	ND	0.0040	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		63-130%
2037-26-5	Toluene-D8	101%		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

Report of Analysis

35
3

Client Sample ID: MW-8	Date Sampled: 06/20/11
Lab Sample ID: D24763-5	Date Received: 06/23/11
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: AECCOL: J-4-2 Proj#390660601	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	444	10	mg/l	20	06/24/11 10:28	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

3.6
3

Client Sample ID: DUP	Date Sampled: 06/20/11
Lab Sample ID: D24763-6	Date Received: 06/23/11
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOL: J-4-2 Proj#390660601	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V07415.D	1	06/24/11	DC	n/a	n/a	V7V392
Run #2							

Run #	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	0.00025	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00050	mg/l	
1330-20-7	Xylene (total)	ND	0.0040	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		63-130%
2037-26-5	Toluene-D8	102%		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

Report of Analysis

3.6
3

Client Sample ID: DUP	Date Sampled: 06/20/11
Lab Sample ID: D24763-6	Date Received: 06/23/11
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: AECCOL: J-4-2 Proj#390660601	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	454	10	mg/l	20	06/24/11 10:39	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

3.1
3

Client Sample ID:	TRIP BLANK	Date Sampled:	06/20/11
Lab Sample ID:	D24763-7	Date Received:	06/23/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOL: J-4-2 Proj#390660601		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V07416.D	1	06/24/11	DC	n/a	n/a	V7V392
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

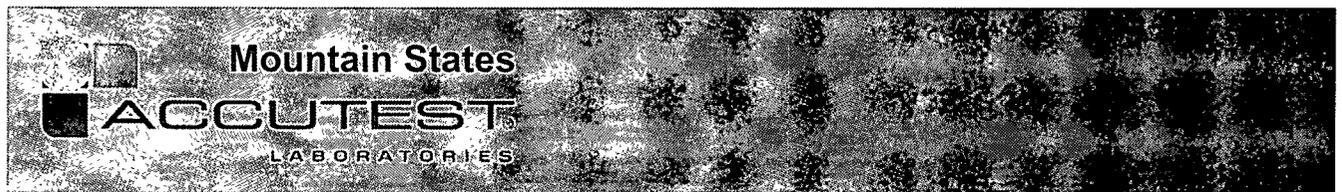
Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00050	mg/l	
1330-20-7	Xylene (total)	ND	0.0040	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		63-130%
2037-26-5	Toluene-D8	104%		68-130%
460-00-4	4-Bromofluorobenzene	88%		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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL. 303-423-6021 FAX. 303-423-6854
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # D24763

Table with columns: Client / Reporting Information, Project Information, Requested Analysis, Matrix Codes, and a grid for sample collection details including Date, Time, and various test parameters.

4.1
4

Turnaround Time (Business days) and Data Deliverable Information section with checkboxes for service levels and reporting options.

Sample Custody table with columns: Relinquished By, Date Time, Received By, Date Time, Relinquished By, Date Time, Received By, Date Time, and Custody Seal #.

D24763: Chain of Custody
Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D24763 Client: AMERICAN ENV. CONSULTING Immediate Client Services Action Required: No

Date / Time Received: 6/23/2011 11:00:00 AM No. Coolers: 1 Client Service Action Required at Login: No

Project: DCP J-4-2 Airbill #'s: HD

Cooler Security

	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	<u>Infrared gun</u>		
3. Cooler media:	<u>Ice (bag)</u>		

Quality Control Preservation

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler	<input type="checkbox"/>		<input type="checkbox"/>	
2. Trnp Blank listed on COC	<input type="checkbox"/>		<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Documentation

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>		

Sample Integrity - Instructions

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

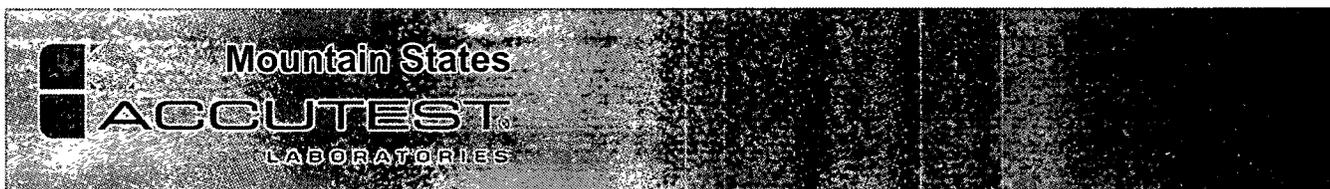
Comments

Accutest Laboratories
V (303) 425-6021

4036 Youngfield Street
F (303) 425-6854

Wheat Ridge, CO
www/accutest.com

4.1
4



GC/MS Volatiles

9

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D24763
 Account: DCPM CODN DCP Midstream, LP
 Project: AECCOL: J-4-2 Proj#390660601

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V392-MB	7V07405.D	1	06/24/11	DC	n/a	n/a	V7V392

The QC reported here applies to the following samples:

Method: SW846 8260B

D24763-1, D24763-2, D24763-3, D24763-4, D24763-5, D24763-6, D24763-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	4.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Results	Limits
17060-07-0	1,2-Dichloroethane-D4	91%	63-130%
2037-26-5	Toluene-D8	101%	68-130%
460-00-4	4-Bromofluorobenzene	87%	61-130%

5.1.1
5

Blank Spike Summary

Job Number: D24763
 Account: DCPMCO DN DCP Midstream, LP
 Project: AECCOL: J-4-2 Proj#390660601

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V392-BS	7V07406.D	1	06/24/11	DC	n/a	n/a	V7V392

The QC reported here applies to the following samples:

Method: SW846 8260B

D24763-1, D24763-2, D24763-3, D24763-4, D24763-5, D24763-6, D24763-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	51.1	102	70-130
100-41-4	Ethylbenzene	50	55.5	111	70-130
108-88-3	Toluene	50	49.8	100	70-140
1330-20-7	Xylene (total)	100	105	105	55-134

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	87%	63-130%
2037-26-5	Toluene-D8	101%	68-130%
460-00-4	4-Bromofluorobenzene	98%	61-130%

5.2.1

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D24763
 Account: DCPMCO DN DCP Midstream, LP
 Project: AECCOL: J-4-2 Proj#390660601

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D24763-4MS	7V07409.D	1	06/24/11	DC	n/a	n/a	V7V392
D24763-4MSD	7V07410.D	1	06/24/11	DC	n/a	n/a	V7V392
D24763-4	7V07408.D	1	06/24/11	DC	n/a	n/a	V7V392

The QC reported here applies to the following samples:

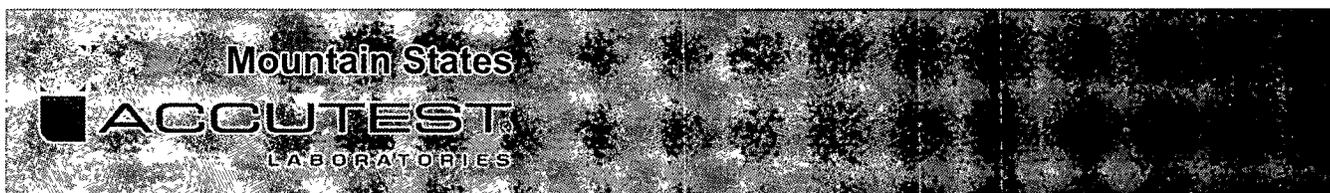
Method: SW846 8260B

D24763-1, D24763-2, D24763-3, D24763-4, D24763-5, D24763-6, D24763-7

CAS No.	Compound	D24763-4		MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q						
71-43-2	Benzene	ND	50	52.2	104	51.5	103	1	59-132/30
100-41-4	Ethylbenzene	ND	50	57.6	115	56.5	113	2	68-130/30
108-88-3	Toluene	ND	50	51.0	102	50.0	100	2	56-142/30
1330-20-7	Xylene (total)	ND	100	107	107	107	107	0	36-146/30

CAS No.	Surrogate Recoveries	MS	MSD	D24763-4	Limits
17060-07-0	1,2-Dichloroethane-D4	90%	90%	93%	63-130%
2037-26-5	Toluene-D8	103%	103%	102%	68-130%
460-00-4	4-Bromofluorobenzene	101%	101%	88%	61-130%

5.3.1
5



General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D24763
Account: DCPMCOBN - DCP Midstream, LP
Project: AECCOL: J-4-2 Proj#390660601

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP4758/GN10225	0.50	0.0	mg/l	20	21.4	107.0	90-110%

Associated Samples:

Batch GP4758: D24763-1, D24763-2, D24763-3, D24763-4, D24763-5, D24763-6

(*) Outside of QC limits

6.1

6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D24763
Account: DCPMCDN - DCP Midstream, LP
Project: AECCOL: J-4-2 Proj#390660601

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP4758/GN10225	D24741-1	mg/l	2.3	10	13.1	108.0%	80-120%

Associated Samples:

Batch GP4758: D24763-1, D24763-2, D24763-3, D24763-4, D24763-5, D24763-6

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.2
6

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D24763
Account: DCPMCDN - DCP Midstream, LP
Project: AECCOL: J-4-2 Proj#390660601

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP4758/GN10225	D24741-1	mg/l	2.3	10	13.2	0.8	20%

Associated Samples:

Batch GP4758: D24763-1, D24763-2, D24763-3, D24763-4, D24763-5, D24763-6

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.3
6