

AP-55

**2nd QTR GW monitoring
results**

**DATE:
September 17, 2010**



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

September 17, 2010

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

**RE: 2nd Quarter 2010 Groundwater Results
DCP Midstream, LP RR Ext. Pipeline Release (AP #55)
Unit C, Section 19, Township 20 South, Range 37 East
Lea County, New Mexico**

RECEIVED OCD
200 SEP 20 A 11:35

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 2nd Quarter 2010 Groundwater Results for the DCP RR Ext. Pipeline Release located in Lea County, New Mexico (Unit C, Section 19, Township 20 South, Range 37 East).

Also included in the attached report, is a recommendation to install four additional groundwater monitor wells to delineate the extent of groundwater impacts. The proposed drilling locations are present in Figure 10 of the report. DCP is currently working with the State Land Office to amend the current water easement to add the four additional wells. Once DCP receives approval for the amended water easement, DCP will schedule the field activities associated with installing the four additional groundwater monitor wells. DCP will notify the OCD at least 48 hours before field activities are started.

If you have any questions regarding the report and/or the installation of the four additional groundwater monitor wells, 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

September 10, 2010

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

Re: Summary of Well Installation and Second Quarter 2010 Groundwater Monitoring
Activities at the DCP Midstream RR Ext Pipeline Release
Unit C, Section 19 Township 20 South, Range 37 East (AP #55)

Dear Mr. Weathers:

This letter report summarizes the second quarter 2010 field activities that were completed at the DCP Midstream (DCP) RR Ext Site (Figure 1). The approximate site coordinates are 32.5624 north, 103.2923 west.

The field activities included well installation and groundwater monitoring. The next section summarizes the well installation activities. The third section discusses the groundwater monitoring results. The final section provides recommendations.

MONITORING WELL INSTALLATION

The June 2010 field activities included the installation, development and sampling of groundwater monitoring wells MW-9, MW-10, MW-11 and MW-12 (Figure 2). The activities were originally proposed in a February 16, 2010 work plan that was submitted and approved by the New Mexico Oil Conservation Division (OCD). The work was completed in June 2010 after receiving approval from the State Land Office.

The wells were installed on June 15 and June 16, 2010 with a hollow-stem auger drilling rig using the protocols included in the February 2010 work plan. The four wells were installed to a nominal depth of 38 feet below ground surface (bgs).

Well construction information for the existing and new wells is summarized in Table 1. The surface completion for each well included an above-ground well protector and a minimum 2 foot by 2 foot concrete pad. All cuttings generated during the drilling process were placed on and then covered with visqueen pending appropriate disposal.

The four new wells were developed by bailing a minimum of 10 gallons. The wells were then purged and sampled as part of the quarterly groundwater monitoring event described below.

GROUNDWATER MONITORING

The eight existing and four new wells were purged and sampling on June 17, 2010. The locations are shown on Figure 2. The fluid levels were first measured at each well to calculate the casing volumes. Wells MW-3, MW-4 and MW-5 contained free phase hydrocarbon (FPH) so they were not purged and sampled.

The remaining nine wells were first purged to equilibration using dedicated bailers based on the field parameters of temperature, pH and conductivity. They were then sampled for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method SW846 8260B and for chlorides using Method SM 4500 CL C. A field duplicate from MW-1 and a matrix spike/matrix spike duplicate (MS/MSD) from MW-6 were also collected to evaluate quality control. All affected purge water was disposed of at the DCP Linam Ranch facility.

The depths to water were remeasured on June 29, 2010 to ensure equilibrated conditions. Wells MW-9 and MW-10 now contained FPHs. It was apparent that additional wells would have to be installed in the near future so AEC postponed the surveying activities and preparation of the boring logs until all the next set of monitoring wells are installed.

The June 29, 2010 water gauging data are summarized in Table 2. The water-table elevations for the wells containing FPH were adjusted using the following formula:

$$GWE_{\text{corr}} = MGWE + (PT \cdot PD); \text{ where}$$

- 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)

Well hydrographs are plotted on Figure 3 for MW-1 to MW-8. Figure 3 indicates that the water table elevation rose across the site at a relatively consistent rate for a second consecutive quarter.

The measured water table elevations from MW-1 to MW-8 were used to generate a groundwater contour map using the Surfer program with a kriging option. This map is included as Figure 4. Groundwater appears to flow almost due south down gradient of MW-5. The generally-southward groundwater flow pattern is similar to that exhibited in the past.

The sampling data are summarized in Table 3. The measured field parameters and a copy of the laboratory report are attached. The quality control evaluation data can be summarized as follows:

- The method blanks were all within their control limits.
- The blank spikes were all within their control limits.
- The individual sample surrogates results were within the method ranges.
- The matrix spike/matrix spike duplicates for MW-6 were within their control ranges.
- The differences between the MW-1 primary and duplicate samples were all less than 20 percent.

The above results indicate that the data are suitable for evaluation for groundwater monitoring purposes.

The New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are included at the top of Table 3. There were no BTEX detections in wells MW-6, MW-7, MW-8, MW-11 and MW-12. Wells MW-1 and MW-2 exceeded the benzene standard.

Wells MW-3 and MW-4 and MW-5 were not sampled because they contained FPH. Wells MW-9 and MW-10 were also sampled on June 17, 2010 but these wells contained 1.33 feet and 0.54 feet respectively of FPH when they were remeasured on June 29, 2010. The BTEX results indicate that the water samples were contaminated with FPH so they are not included on Table 3.

Figure 5 shows the benzene concentrations and locations of the wells that contained FPH for the sampling event. The extent of dissolved phase BTEX effects is delineated to the south, southeast and east by MW-6, MW-7, MW-11 and MW-12. New wells MW-9 and MW-10 both contained FPH so additional characterization is necessary to delineate the extent of the FPH, and probably dissolved phase hydrocarbons, to the southwest and west. The presence of FPH in MW-3 indicates that additional characterization is also necessary to the north of it

All of the BTEX data collected for this project are summarized in Table 4. Figure 6 graphs the benzene concentration verses time for affected wells MW-1 and MW-2. The concentration in MW-1 declined for the second consecutive quarter but it still remains above the historic low concentration. The concentration in MW-2 remains relatively constant.

The concentrations in MW-8 have declined over the duration of the project to the point where the BTEX constituents were undetected for the fourth consecutive sampling event. This trend indicates that the dissolved-phase plume is defined on its up-gradient boundary.

The measured FPH thickness values are summarized in Table 5. FPH was first measured at the site in September 2009 in MW-4. FPH has now been present in MW-4 for four consecutive quarters. It is now also present in MW-3 and MW-5. The FPH appears to be relatively fresh based upon its color and odor.

The chloride data are summarized in Table 6. The laboratory measured concentrations between 385 and 650 mg/l in all of the samples except MW-2 (233 mg/l). Figure 7 shows the chlorides concentrations for this event. The anomalously-low value at MW-2 has been an historic phenomenon.

The chloride concentrations verses time are plotted on Figure 8. The concentrations all decreased substantially from the anomalously-high values that were measured in March 2010. The chloride values for the wells without FPH are plotted on Figure 9 with the March 2010 data removed. The graphs indicate that the chloride values are increasing in a uniform fashion in wells that are up-gradient (MW-8), within (MW-1 and MW-2) and down-gradient (MW-6 and MW-7) of the remediated release site. The relevance of this trend is unclear given the relatively low chloride concentrations involved.

RECOMMENDATIONS

AEC recommends that the following four activities be completed based upon the data collected to date. First, continue quarterly monitoring because the FPH and dissolved phase plume boundaries have not been defined. Sampling for chlorides should also continue to assess the apparent increasing trend.

Second, install four additional wells at the approximate locations shown on Figure 10. The wells may have to be moved based upon access conditions as well as the hydrocarbon distribution encountered.

The wells will be completed to tap the same approximate saturated interval as the existing wells. Soil samples will be collected as necessary to characterize hydrocarbon concentrations in the unsaturated subsurface materials. The wells will be developed prior to purging and sampling. Additional wells and/or soil borings may be installed during this program as necessary to complete characterization without having to prepare additional work plans.

Third, survey the locations and elevations of the new wells and recently-installed wells MW-9 through MW-12. Also, prepare boring logs detailing, lithology, staining and odor will be prepared for all wells beginning with MW-9.

Mr. Stephen Weathers
September 10, 2010
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Fourth, incorporate the results of these activities into the next quarterly report.

The next sampling event will be completed during the third quarter of 2010. Do not hesitate to contact me if you have any questions or comments on this document.

Respectfully Submitted,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

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

attachments

TABLES

Table 1 – Summary of Well Construction at the DCP RR Ext Location

Well	Date Installed	Total Depth (ground)	Screen Interval (ground)	Sand Interval
MW-1	3/08	37.5	17.5-37.5	16-37.5
MW-2	3/08	37.5	17.5-37.5	16-37.5
MW-3	3/08	37.5	17.5-37.5	16-37.5
MW-4	3/08	37.5	17.5-37.5	16-37.5
MW-5	3/08	37.5	17.5-37.5	16-37.5
MW-6	6/08	37.5	17.5-37.5	16-37.5
MW-7	6/08	37.5	17.5-37.5	16-37.5
MW-8	6/08	37.5	17.5-37.5	16-37.5
MW-9	6/10	38	18-38	16-38
MW-10	6/10	38	18-38	16-38
MW-11	6/10	38	18-38	16-38
MW-12	6/10	38	18-38	16-38

Notes: Units are feet
 All wells are 2-inch diameter
 Wells were grouted to the surface with hydrated bentonite pellets and completed with above-ground well protectors

Table 2 - Summary of Second Quarter 2010 Fluids Measurement Data

Well	Depth to Water	Depth to Product	FPH Thickness	Water Table Elevation
MW-1	29.90			3504.67
MW-2	30.68			3504.50
MW-3	32.62	31.68	0.94	3504.66
MW-4	32.15	30.59	1.56	3504.22
MW-5	32.87	31.25	1.62	3504.27
MW-6	31.95			3504.21
MW-7	32.66			3504.43
MW-8	31.61			3504.80
MW-9	30.52	29.19	1.33	NE
MW-10	30.56	30.02	0.54	NE
MW-11	31.89			NE
MW-12	30.12			NE

Units are Feet

NE: not established: Casing elevation not yet measured

Table 3 - RR Ext Second Quarter 2010 Groundwater Sampling Results

Well	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Chlorides
NMWQCC Standards	0.010	0.75	0.75	0.62	250*
MW-1	0.339	0.0329	0.0539	0.0079	518
MW-1 DUP	0.353	0.0395	0.0632	0.0088	501
MW-2	22.9	0.39J	0.485	0.128J	233
MW-3	Not sampled because free phase hydrocarbons were present				
MW-4	Not sampled because free phase hydrocarbons were present				
MW-5	Not sampled because free phase hydrocarbons were present				
MW-6	<0.001	<0.002	<0.002	<0.004	402
MW-7	0.0005J	<0.002	<0.002	<0.004	385
MW-8	<0.001	<0.002	<0.002	<0.004	553
MW-9	FPH present, results not representative				532
MW-10	FPH present, results not representative				656
MW-11	<0.001	<0.002	<0.002	<0.004	407
MW-12	<0.001	<0.002	<0.002	<0.004	514
Trip Blank	<0.001	<0.002	<0.002	<0.004	

Notes: Units mg/l

NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards

Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

* Chlorides is a secondary (non-health based) standard.

Table 4 - RR Ext BTEX Groundwater Monitoring Results Summary

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards		.010	0.75	0.75	0.62
MW-1	3/08	1.4	0.948	0.0395	0.128
	6/08	2.75	2.17	0.054	0.232
	9/08	1.1	0.845	0.0375	0.131
Duplicate	9/08	1.22	0.883	0.0506	0.197
	12/08	0.869	0.581	0.0385	0.0709
	3/09	0.288	0.107	0.0149	0.0395
	5/09	1.38	0.175	0.0705	0.065
	9/09	0.267	0.0332	0.024	0.0078
	12/09	0.819	0.0267	0.088	0.012
	3/10	0.726	0.107	0.0879	0.0278J
Duplicate	3/10	0.431	0.714	0.64	0.201
	6/10	0.339	0.0329	0.0539	0.0079
Duplicate	6/10	0.353	0.0395	0.0632	0.0088
MW-2	3/08	8.98	6.58	0.135J	0.765
Duplicate	3/08	10	7	0.156J	0.93
	6/08	24.3	18.5	0.319	2.58
Duplicate	6/08	23.5	19.2	0.309	2.36
	9/08	21.7	9.79	0.443	4.25
	12/08	Not sampled: Remediation activities			
	3/09	23.7	2.34	0.583	1.25
Duplicate	3/09	4.07	1.91	0.268 J	0.49 J
	5/09	32.7	1.31	0.791	1.69
Duplicate	5/09	30.7	1.43	0.907	2.14
	9/09	29.3	0.771	0.491	0.371J
	12/09	28.5	0.347	0.57	0.177J
Duplicate	12/09	31.8	0.397J	0.829	0.193
	3/10	23.8	0.71	0.529	<1.2
	6/10	22.9	0.39J	0.485	0.128
MW-3	3/08	0.759	0.849	0.0355	0.0786
	6/08	6.18	9.46	0.287	1.23
	9/08	2.45	3.62	0.145	1.14
	12/08	0.761	0.938	0.0492	0.158
	3/09	4.03	2.83	0.18 J	0.61
	5/09	14.7	12.6	0.808	1.64
	9/09	5.5	1.09	0.271	<0.006
	12/09	13.1	9.08	1.2	2.87
	3/10	8.43	9.14	1.01	2.71
	6/10	Free Phase Hydrocarbons			

Notes: Units mg/l and NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards
 J qualifiers indicate an estimated concentration between the method detection and method reporting limits.
 Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

Table 4 - RR Ext BTEX Groundwater Monitoring Results Summary (continued)

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards		.010	0.75	0.75	0.62
MW-4	3/08	0.0102	0.0093	<0.002	0.0023J
	6/08	0.0439	0.0256	0.0068	0.0147
	9/08	0.514	0.443	0.0203	0.125
	12/08	1.32	1.35	0.0812	0.239J
	3/09	3.61	3.4	0.164 J	0.831
	5/09	4.7	2.94	0.428	1.03
Free Phase Hydrocarbons Since Third Quarter 2009					
MW-5	3/08	0.0019J	0.0012J	<0.002	<0.006
	6/08	0.0037	0.0037	<0.002	<0.006
	9/08	0.0038	0.0037	<0.002	<0.006
	12/08	0.0031	0.004	<0.002	<0.006
	3/09	0.0067	0.0074	<0.002	<0.006
	5/09	0.0064	0.0089	0.0025	0.0045 J
	9/09	0.0082	0.0132	0.00066J	<0.006
	12/09	0.0096	0.0155	0.0013J	0.0021J
Free Phase Hydrocarbons Since First Quarter 2010					
MW-6	6/08	<0.002	<0.002	<0.002	<0.006
	9/08	<0.002	<0.002	<0.002	<0.006
	12/08	<0.002	<0.002	<0.002	<0.006
	3/09	<0.002	<0.002	<0.002	<0.006
	5/09	<0.002	<0.002	<0.002	<0.006
	9/09	<0.002	<0.002	<0.002	<0.006
	12/09	<0.002	<0.002	<0.002	<0.006
	3/10	<0.002	<0.002	<0.002	<0.006
	6/10	<0.001	<0.002	<0.002	<0.002

Notes: Units mg/l and NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards
 J qualifiers indicate an estimated concentration between the method detection and method reporting limits.
 Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

Table 4 - RR Ext BTEX Groundwater Monitoring Results Summary (continued)

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards		.010	0.75	0.75	0.62
MW-7	6/08	<0.002	<0.002	<0.002	<0.006
	9/08	<0.002	<0.002	<0.002	<0.006
	12/08	<0.002	<0.002	<0.002	<0.006
	3/09	<0.002	<0.002	<0.002	<0.006
	5/09	<0.002	<0.002	<0.002	<0.006
	9/09	<0.002	<0.002	<0.002	<0.006
	12/09	<0.002	<0.002	<0.002	<0.006
	3/10	<0.002	<0.002	<0.002	<0.006
	6/10	0.0005J	<0.002	<0.002	<0.002
MW-8	6/08	0.0384	0.0255	0.00049J	0.0016J
	9/08	0.0301	0.0161	<0.002	0.002 J
	12/08	0.0233	0.011	<0.002	<0.006
Dup	12/08	0.0122	0.006	<0.002	<0.006
	3/09	0.0218	0.0066	<0.002	<0.006
	5/09	0.0098	0.0049	<0.002	<0.006
	9/09	<0.002	<0.002	<0.002	<0.006
Dup	9/09	<0.4	<0.4	<0.4	<1.2
	12/09	<0.002	<0.002	<0.002	<0.006
	3/10	<0.002	<0.002	<0.002	<0.006
	6/10	<0.001	<0.002	<0.002	<0.002
MW-9	Free Phase Hydrocarbons at June 2010 Installation				
MW-10	Free Phase Hydrocarbons at June 2010 Installation				
MW-11	6/10	<0.001	<0.002	<0.002	<0.004
MW-12	6/10	<0.001	<0.002	<0.002	<0.004

Notes: Units mg/l
 NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards
 J qualifiers indicate an estimated concentration between the method detection and method reporting limits.
 Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

Table 5 - Summary of Free Phase Hydrocarbon Thickness

Date	MW-3	MW-4	MW-5	MW-9	MW-10
09/23/09	NP	~1.0	NP	NI	NI
12/20/09	NP	1.88	NP	NI	NI
03/22/10	NP	1.71	0.27	NI	NI
06/30/10	0.94	1.56	1.62	1.33	0.54

All units in feet

NP: no free phase hydrocarbons present

NI: well not installed

Table 6 - RR Ext Chlorides Groundwater Monitoring Results Summary

Well	9/08	12/08	3/09	5/09	9/09	12/09	3/10
MW-1	507	447	432	462	422	363	800
MW-2	109	NS	114	109	139	199	700
MW-3	363	301	273	313	363	398	440
MW-4	318	281	229	226	FPH	FPH	FPH
MW-5	373	318	288	363	358	313	FPH
MW-6	363	325	298	308	296	393	700
MW-7	378	348	283	298	273	328	750
MW-8	512	393	472	450	477	472	800

Well	6/10
MW-1	510
MW-2	233
MW-3	FPH
MW-4	FPH
MW-5	FPH
MW-6	402
MW-7	385
MW-8	553
MW-9	532*
MW-10	656*
MW-11	407
MW-12	514

Notes: Units are mg/l

Duplicate values averaged together

FPH free phase hydrocarbons present

* Collected with FPH in the well but believed to be representative

FIGURES

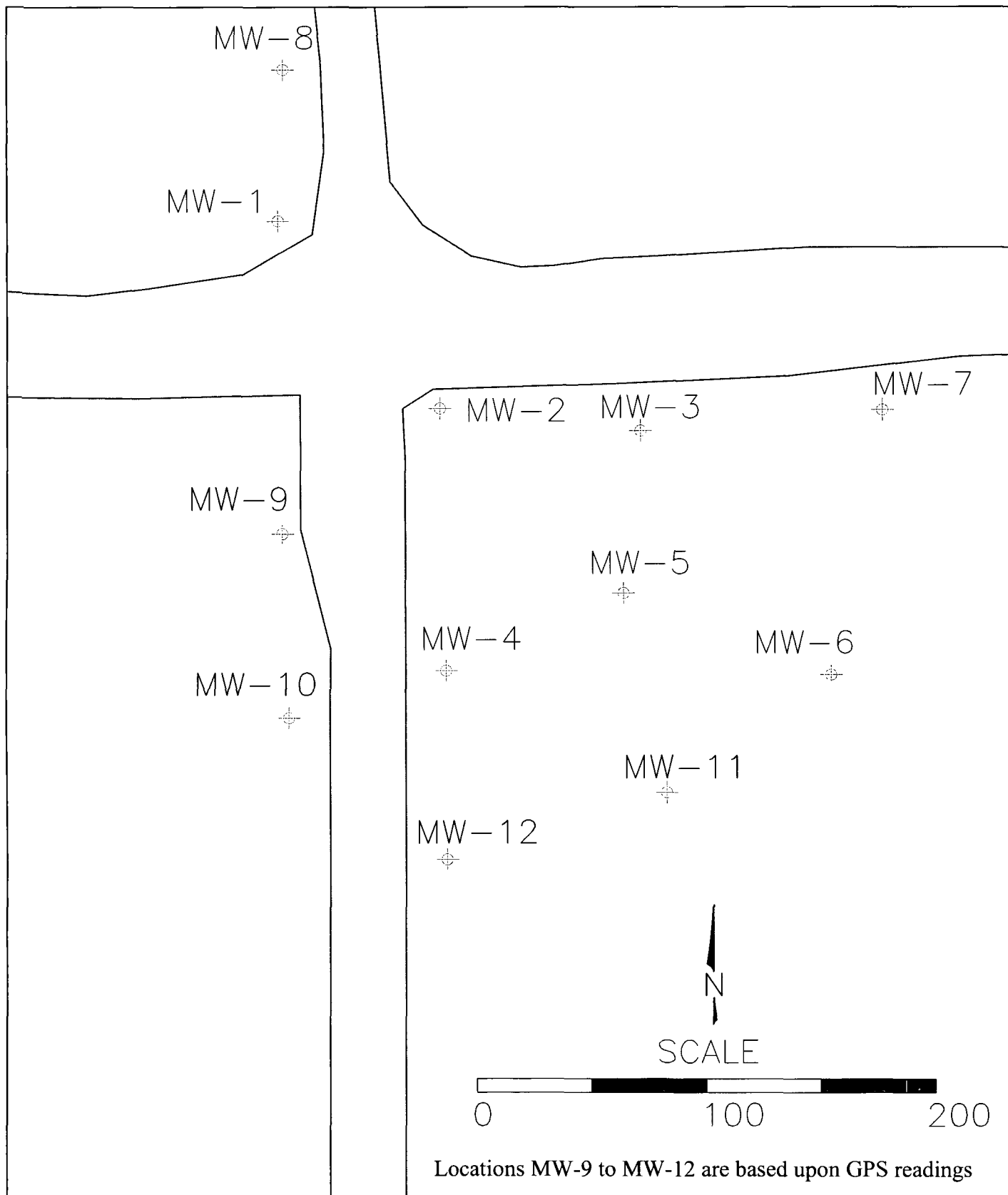


Figure 2 - Monitoring Well Locations

RR Ext - Groundwater Monitoring



DRAWN BY: MHS

REVISED:

DATE: 8/10

3505.5

3505

3504.5

3504

3503.5

Water Table Elevation (feet)

- MW-1
- MW-2
- MW-3
- MW-4
- MW-5
- MW-6
- MW-7
- MW-8

Jan-08 Apr-08 Jul-08 Oct-08 Jan-09 Apr-09 Jul-09 Oct-09 Jan-10 Apr-10 Jul-10

Figure 3 – Monitoring Well Hydrographs

RR Ext - Groundwater Monitoring

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DATE: 8/10

dcp
Midstream

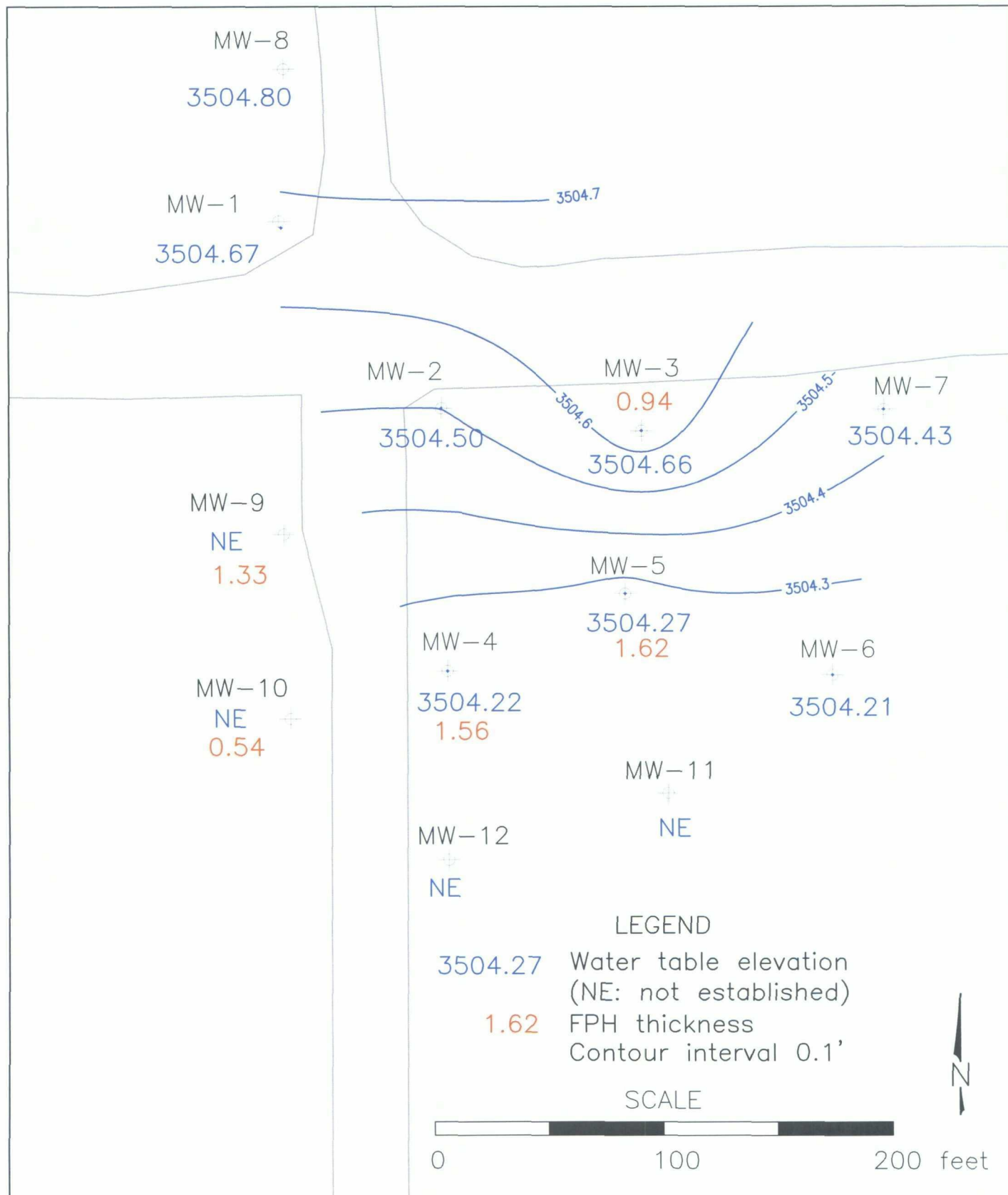


Figure 4 - Water Table Contours and FPH Thickness

RR Ext - Groundwater Monitoring



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REVISED:

DATE: 8/10

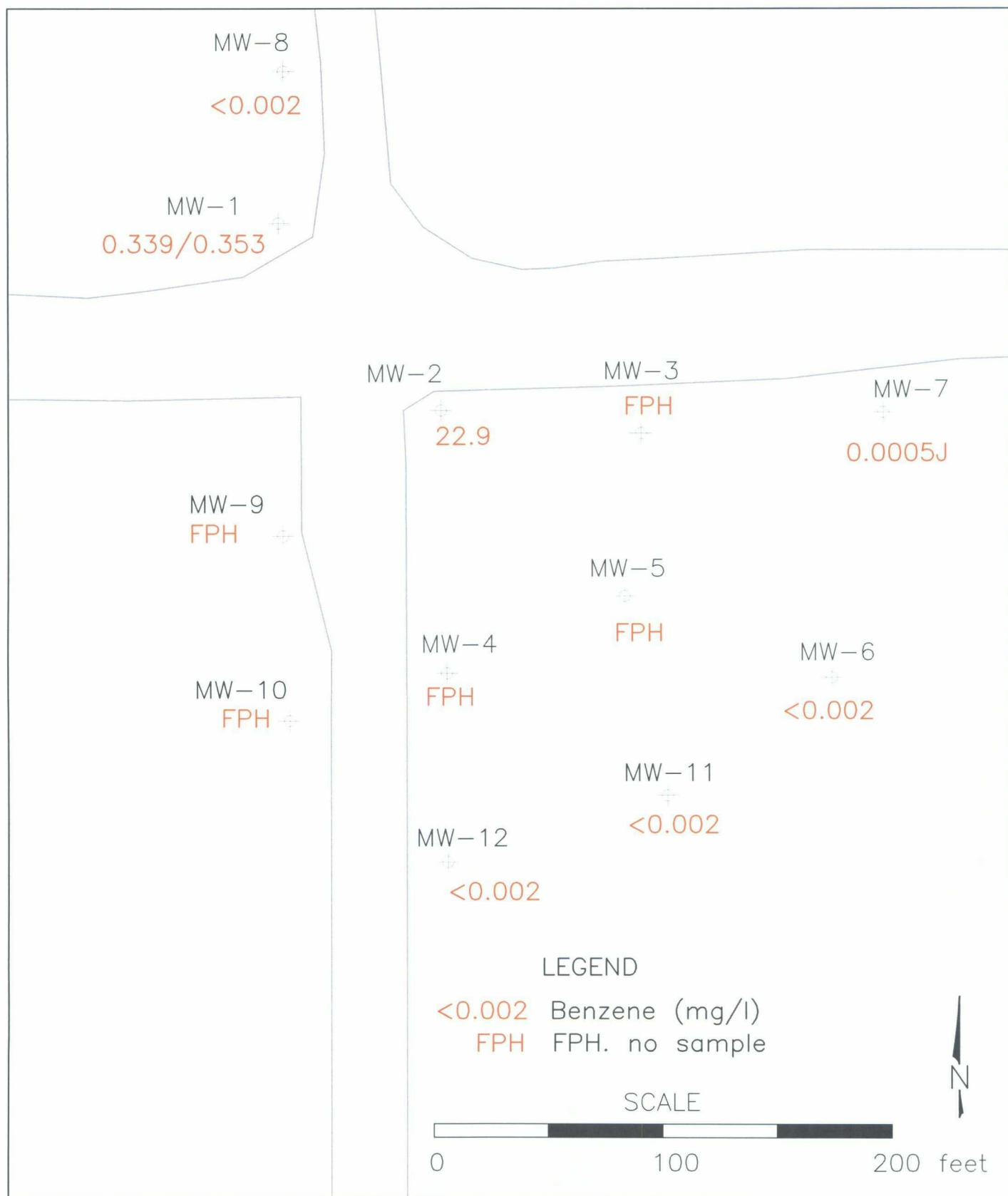


Figure 5 - Second Quarter 2010 Benzene Concentrations

RR Ext - Groundwater Monitoring



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DATE: 8/10

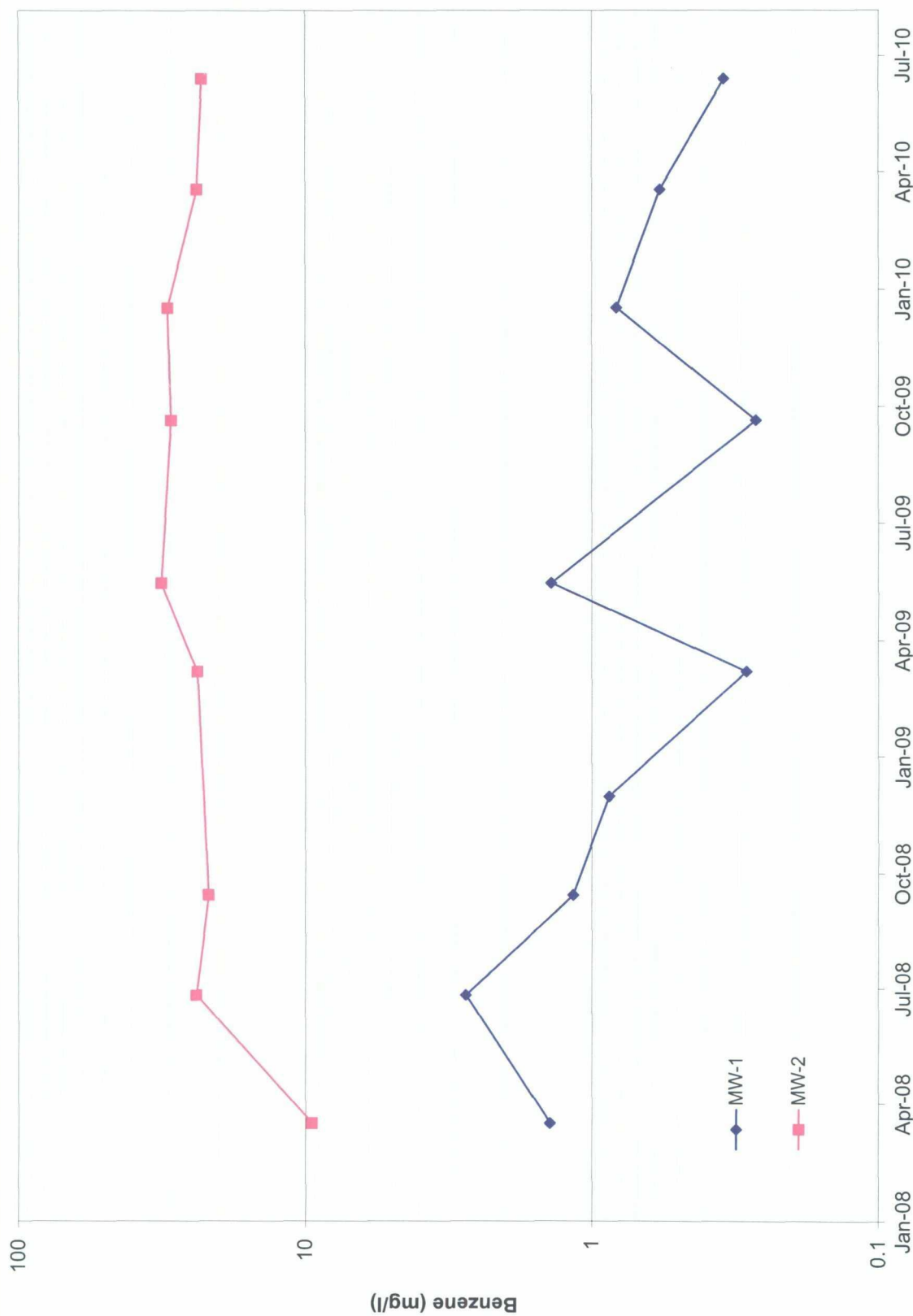


Figure 6 – Benzene Concentrations Verses Time

RR Ext - Groundwater Monitoring

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DATE: 8/10

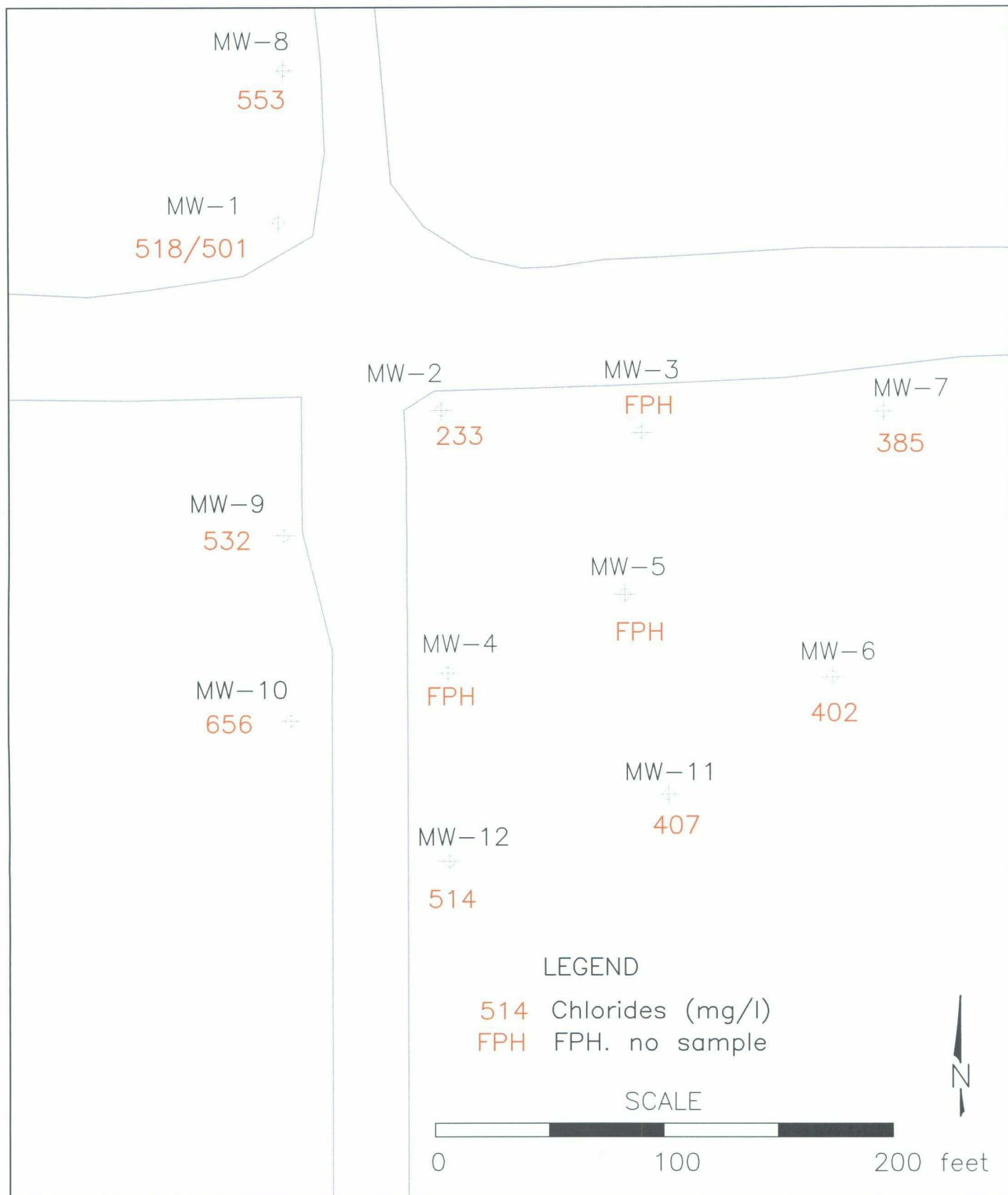


Figure 7 - Second Quarter 2010 Chloride Concentrations

RR Ext - Groundwater Monitoring



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REVISED:

DATE: 8/10

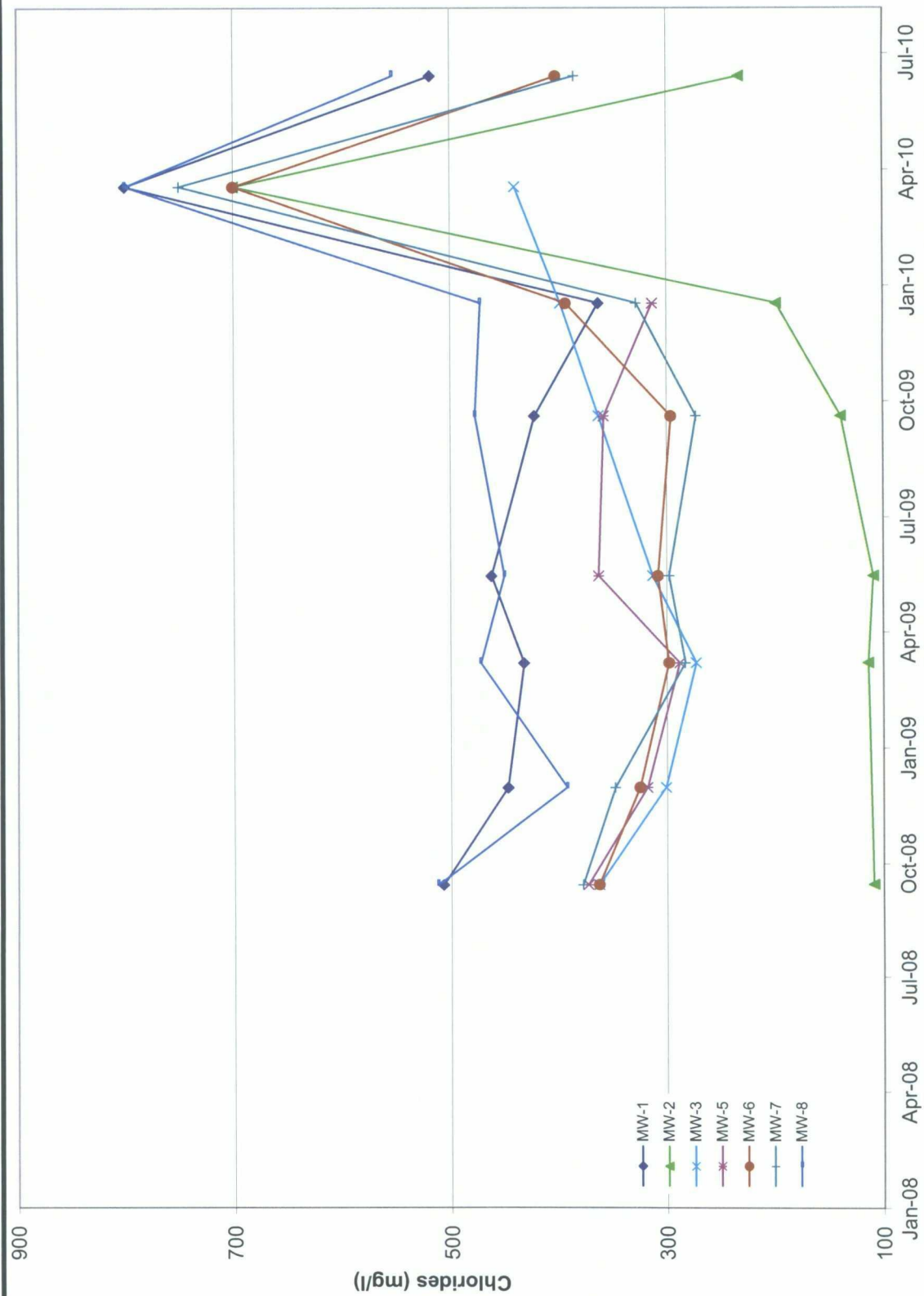


Figure 8 – Chloride Concentrations Verses Time

RR Ext - Groundwater Monitoring

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DATE: 8/10

dcp
Midstream

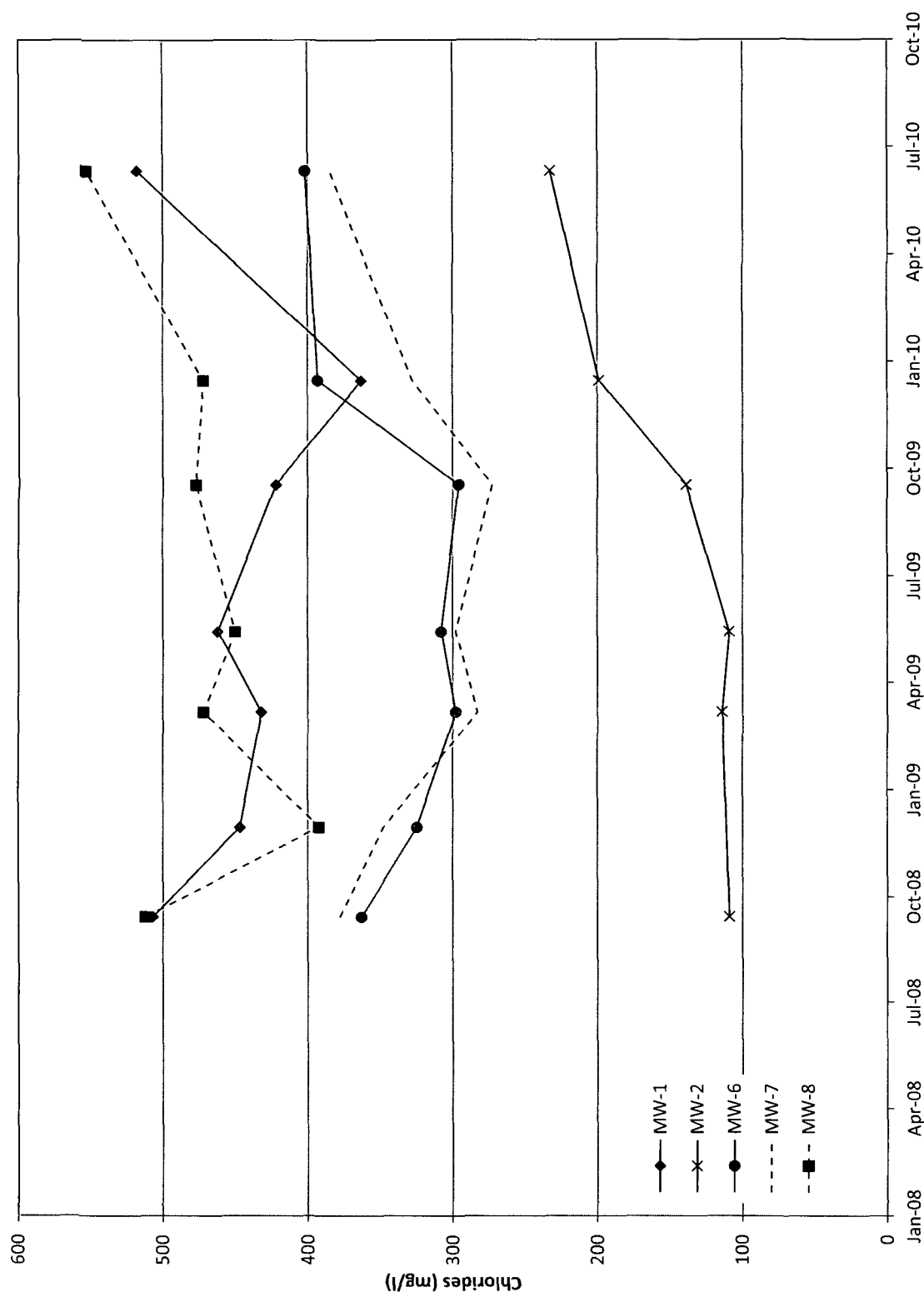


Figure 9 – Chloride Concentrations Verses Time Minus Anomalous Values

RR Ext - Groundwater Monitoring
 DRAWN BY: MHS
 DATE: 8/10



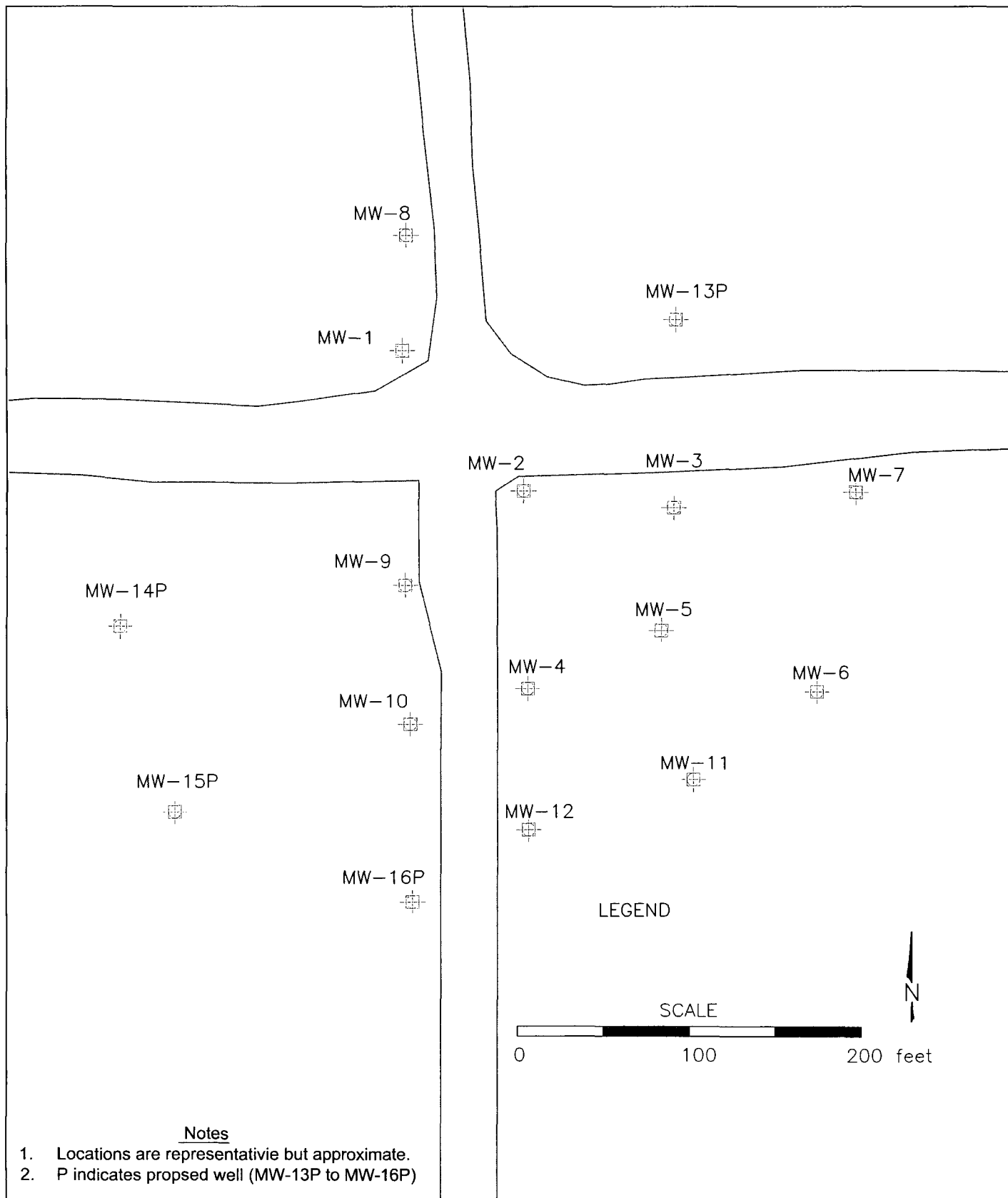


Figure 10 - Proposed Additional Monitoring Well Locations

RR Ext - Groundwater Monitoring



DRAWN BY: MHS

REVISED:

DATE: 8/10

ATTACHMENT

WELL SAMPLING DATA AND
ANALYTICAL LABORATORY REPORT

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream
SITE NAME: RR-EXT
PROJECT NO. _____

WELL ID: MW-1
DATE: 6/17/2010
SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☒ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 39.56 Feet

DEPTH TO WATER: 29.84 Feet

HEIGHT OF WATER COLUMN: 9.72 Feet

WELL DIAMETER: 2.0 Inch

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

[illegible]

SAMPLE NO.: Collected Sample No.: MW-1

ANALYSES: BTEX (8260)

COMMENTS:

Duplicate sample collected

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-2

SITE NAME: RR-EXT DATE: 6/17/2010

PROJECT NO. _____ SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL: 39.91 Feet

DEPTH TO WATER: 30.65 Feet

HEIGHT OF WATER COLUMN: 9.26 Feet

WELL DIAMETER: 2.0 Inch

4.6 Minimum Gallons to
purge 3 well volumes

[illegible]

SAMPLE NO.: Collected Sample No.: MW-2

ANALYSES: BTEX (8260)

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream

WELL ID: MW-3

SITE NAME: RR-EXT

DATE: 6/17/2010

PROJECT NO. _____

SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL: 40.03 Feet

DEPTH TO WATER: 32.50 Feet

HEIGHT OF WATER COLUMN: 7.53 Feet

WELL DIAMETER: 2.0 Inch

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

[illegible]

0.0 Volume: (gallons)

SAMPLE NO.: Collected Sample No.: No sample because of FPH

ANALYSES: BTEX (8260)

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream

WELL ID: MW-4

SITE NAME: RR-EXT

DATE: 6/17/2010

PROJECT NO. _____

SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL: 40.66 Feet

DEPTH TO WATER: 30.67 Feet

HEIGHT OF WATER COLUMN: 9.99 Feet

WELL DIAMETER: 2.0 Inch

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

[illegible]

SAMPLE NO.: Collected Sample No.: No sample because of FPH

ANALYSES: _____

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-5

SITE NAME: RR-EXT DATE: 6/17/2010

PROJECT NO. _____ SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL: 42.15 Feet

DEPTH TO WATER: 0.00 Feet

HEIGHT OF WATER COLUMN: 42.15 Feet

WELL DIAMETER: 2.0 Inch

21.1 Minimum Gallons to
purge 3 well volumes

TIME	VOLUME PURGED	TEMP. °C	COND. <i>m S/cm</i>	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
0.0 Volume: (gallons)							

SAMPLE NO.: Collected Sample No.: No sample because of FPH

ANALYSES: BTEX (8260)

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-6

SITE NAME: RR-EXT DATE: 6/17/2010

PROJECT NO. _____ SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:
☒ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

TOTAL DEPTH OF WELL: 39.68 Feet

DEPTH TO WATER: 32.03 Feet

HEIGHT OF WATER COLUMN: 7.65 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. <i>m S/cm</i>	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.3	19.9	1.20	7.63			
	2.6	19.8	1.20	7.51			
	3.9	19.7	1.20	7.47			
3.9 Volume: (gallons)							

SAMPLE NO.:	Collected Sample No.: MW-6
ANALYSES:	BTEX (8260)
COMMENTS:	Collected samples for MS and MSD analyses

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-7

SITE NAME: RR-EXT DATE: 6/17/2010

PROJECT NO. _____ SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL:	39.86	Feet
DEPTH TO WATER:	32.67	Feet
HEIGHT OF WATER COLUMN:	7.19	Feet
WELL DIAMETER:	2.0	Inch

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

[illegible]

SAMPLE NO.: Collected Sample No.: MW-7

ANALYSES: BTEX (8260)

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-8

SITE NAME: RR-EXT DATE: 6/17/2010

PROJECT NO. _____ SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL: 40.26 Feet

DEPTH TO WATER: 31.52 Feet

HEIGHT OF WATER COLUMN: 8.74 Feet

WELL DIAMETER: 2.0 Inch

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

[illegible]

SAMPLE NO.: Collected Sample No.: MW-8

ANALYSES: BTEX (8260)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-9

SITE NAME: RR-EXT DATE: 6/17/2010

PROJECT NO. _____ SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL: 40.00 Feet

DEPTH TO WATER: 29.49 Feet

HEIGHT OF WATER COLUMN: 10.51 Feet

WELL DIAMETER: 2.0 Inch

5.3 Minimum Gallons to
purge 3 well volumes

TIME	VOLUME PURGED	TEMP. °C	COND. m S/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
	2	21.1	1.57	7.30			
	4	20.7	1.56	7.47			
	6	20.2	1.56	7.34			
6.0 Volume: (gallons)							

SAMPLE NO.: Collected Sample No.: MW-9

ANALYSES: BTEX (8260)

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream WELL ID: MW-10

SITE NAME: RR-EXT DATE: 6/17/2010

PROJECT NO. _____ SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL:	40.00	Feet
DEPTH TO WATER:	29.74	Feet
HEIGHT OF WATER COLUMN:	10.26	Feet
WELL DIAMETER:	2.0	Inch

5.1 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	21.5	1.57	7.52			
	4	21.2	1.57	7.59			
	6	21.1	1.56	7.57			
6.0 Volume: (gallons)							

SAMPLE NO.: Collected Sample No.: MW-10

ANALYSES: BTEX (8260)

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream

WELL ID: MW-11

SITE NAME: RR-EXT

DATE: 6/17/2010

PROJECT NO. _____

SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

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

TOTAL DEPTH OF WELL: 40.00 Feet

DEPTH TO WATER: 31.89 Feet

HEIGHT OF WATER COLUMN: 8.11 Feet

WELL DIAMETER: 2.0 Inch

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

[illegible]

SAMPLE NO.: Collected Sample No.: MW-11

ANALYSES: BTEX (8260)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream

WELL ID: MW-12

SITE NAME: RR-EXT

DATE: 6/17/2010

PROJECT NO. _____

SAMPLER: A. Taylor

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

SAMPLING METHOD: ☒ Dedicated Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☒ Gloves ☐ Alconox ☐ Distilled Water Rinse Other: _____

TOTAL DEPTH OF WELL: 40.00 Feet

DEPTH TO WATER: 31.00 Feet

HEIGHT OF WATER COLUMN: 9.00 Feet

WELL DIAMETER: 2.0 Inch

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

[illegible]

SAMPLE NO.: Collected Sample No.: MW-12

ANALYSES: BTEX (8260)

COMMENTS: _____



08/24/10

Technical Report for

DCP Midstream, LP

AECCOL: DCP RRIEXT

Accutest Job Number: 14408

Sampling Date: 06/17/10

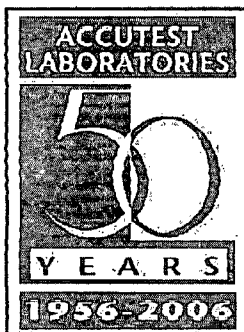
Report to:

American Environmental Consulting, LLC

mstewart@aecdenver.com

ATTENTION: Environmental

Total Number of Pages in Report: 11



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.

Client Service Contact: Amanda Kissell 303-425-6021

Certifications: ECO, ED, DE, DN, DND (R-027) (PW) DET (NELAP ECO00049)

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Test Results Relate Only to Samples Analyzed.

Jesse L. Smith

Jesse L. Smith
Laboratory Director

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Sample Summary

DCP Midstream, LP

Job No: D14408

AECCOL: DCP RR EXT

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D14408-1	06/17/10	11:50 AT	06/18/10	AQ Groundwater	MW-1
D14408-2	06/17/10	11:05 AT	06/18/10	AQ Groundwater	MW-2
D14408-3	06/17/10	09:40 AT	06/18/10	AQ Groundwater	MW-6
D14408-3D	06/17/10	09:40 AT	06/18/10	AQ Water Dup/MSD	MW-6
D14408-3M	06/17/10	09:40 AT	06/18/10	AQ Water Matrix Spike	MW-6
D14408-4	06/17/10	08:30 AT	06/18/10	AQ Groundwater	MW-7
D14408-5	06/17/10	11:30 AT	06/18/10	AQ Groundwater	MW-8
D14408-6	06/17/10	00:00 AT	06/18/10	AQ Water Dup/MSD	MW DUP
D14408-7	06/17/10	00:00 AT	06/18/10	AQ Trip Blank Water	TRIP BLANK
D14408-8	06/17/10	12:20 AT	06/18/10	AQ Groundwater	PWD1
D14408-9	06/17/10	12:40 AT	06/18/10	AQ Groundwater	PWD2
D14408-10	06/17/10	13:00 AT	06/18/10	AQ Groundwater	PWD0
D14408-11	06/17/10	13:30 AT	06/18/10	AQ Groundwater	PWD



CASE NARRATIVE CONFORMANCE SUMMARY

Client: DCP Midstream, LP

Job No D14408

Site: AECCOL DCP REXT

Report Date 6/23/2010 9:59:15 AM

On 06/18/2010, 10 samples, 1 Trip Blanks, and 0 Field Blanks were received at Accutest Mountain States (AMS) at a temperature of 2.5°C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D14408 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 260B

Matrix AQ

Batch ID: V5V457

- All Samples Were Analyzed Within the Recommended Method Holding Time.
- All Method Blanks for this Batch Meet Method Specific Criteria.
- Samples D14408-3MS and D14408-3MSD Were Used as the QC Samples Indicated.

Matrix AQ

Batch ID: V5V458

- All Samples Were Analyzed Within the Recommended Method Holding Time.
- All Method Blanks for this Batch Meet Method Specific Criteria.
- Samples D14411-2MS and D14411-2MSD Were Used as the QC Samples Indicated.

Wet Chemistry by Method EPA 800/SW846 9056

Matrix AQ

Batch ID: GP2188

- All Samples Were Prepared Within the Recommended Method Holding Time.
- All Samples Were Analyzed Within the Recommended Method Holding Time.
- All Method Blanks for this Batch Meet Method Specific Criteria.
- Samples D14074-3MS and D14074-3MSD 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 or Standard Methods. Acceptable Uncertainty Requires Tested Parameter Quality Control Data to Meet Method Criteria.

AMS is Not Responsible for Data Quality Assumptions or 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

Page 1 of 1

Client Sample ID: MW-1C
 Lab Sample ID: D14408-1
 Matrix: AQCC Ground Water
 Method: SW846 260B
 Project: AECCOL:DCP REXT

Date Sampled: 06/17/10C
 Date Received: 06/18/10C
 Percent Solids: n/aC

Run	File	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08484.D	1	06/20/10	DC	n/a	n/a	V5V457
Run#2	5V08513.D	5	06/21/10	DC	n/a	n/a	V5V458

Run	Purge Volume
Run#1	5.00ml
Run#2	5.00ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	339C	5.0	1.5	ug/l	
108-88-3	Toluene	32.9	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	53.9	2.0	0.30	ug/l	
	m,p-Xylene	5.3	4.0	0.60	ug/l	
95-47-6	o-Xylene	2.6	2.0	0.60	ug/l	

CAS No.	Surrogate Recoveries	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%	89%	70-130%
2037-26-5	Toluene-D8	93%	90%	70-130%
460-00-4	4-Bromofluorobenzene	85%	81%	70-130%

(a) Results from Run#2

ND = Not Detected MDL = Method Detection Limit
 RL = Reporting Limit
 EC = Indicates Value Exceeds Calibration Range

JE = Indicates an Estimated Value
 BE = Indicates Analytic Found in Associated Method Blank
 NC = Indicates Presumptive Evidence of Compound

Report of Analysis

Page 1 of 1

Client Sample ID: MW-1C
Lab Sample ID: D14408-1
Matrix: AQCC Ground Water CMC
Project: AECCOL:DCP CORRECT

Date Sampled: 06/17/10C
Date Received: 06/18/10C
Percent Solids: n/aC

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	518	5.0	mg/l	10	06/21/10 15:21	GH	EPAG00/SW846 0056

RL: Reporting Limit CMC

Report of Analysis

Page 1 of 1

Client Sample ID: MW-2C
 Lab Sample ID: D14408-2
 Matrix: AQC Ground Water
 Method: SW846 260B
 Project: AECCOL: CFC & EXT

Date Sampled: 06/17/10C
 Date Received: 06/18/10C
 Percent Solids: n/aC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V08485.D	200	06/20/10	DC	n/a	n/a	V5V457
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	22900	200	60	ug/l	
108-88-3	Toluene	390	400	200	ug/l	J
100-41-4	Ethylbenzene	485	400	60	ug/l	
	m,p-Xylene	128	800	120	ug/l	J
95-47-6	o-Xylene	ND	400	120	ug/l	

CAS No.	Surrogate Recoveries	Run #1	Run #2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%

ND = Not Detected MDL = Method Detection Limit
 RL = Reporting Limit
 EG = Indicates Value Exceeds Calibration Range

J = Indicates an Estimated Value
 BG = Indicates Analyte Found in Associated Method Blank
 NG = Indicates Presumptive Evidence of a Compound

Report of Analysis

Page 1 of 1

Client Sample ID:	1077-2C	Date Sampled:	06/17/10C
Lab Sample ID:	534488-2	Date Received:	06/18/10C
Matrix:	AQUA Ground Water	Percent Solids:	n/aC
Project:	AECCOL UCPRK EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	233	2.5	mg/l	5	06/21/10 5:34	GH	EPAG00/SW8460056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-6C		Date Sampled: 06/17/10
Lab Sample ID: D14408-3	Matrix: AOC Ground Water	Date Received: 06/18/10
Method: SW846 260B	Percent Solids: n/a	
Project: AECCOL:DCP REXT		

Run#	File#	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08481.D	1	06/20/10	DC	n/a	n/a	V5V457
Run#2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	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	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%

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

Page 1 of 1

Client Sample ID: MW-6C
Lab Sample ID: D14408-3
Matrix: AEC Groundwater
Project: AECCOLDCP/RCEXT

Date Sampled: 06/17/10C
Date Received: 06/18/10C
Percent Solids: n/aC

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	402	5.0	mg/l	10	06/21/10 15:48	CH	EPA 300/SW 846 0056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-7C	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-4	Date Received:	06/18/10C
Matrix:	AQCC Ground Water	Percent Solids:	n/aC
Method:	SW846 8260B		
Project:	AECCOL:DCP/REXT		

Run#	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08486.D	1	06/20/10	DC	n/a	n/a	V5V457
Run#2							

Run#	Purge Volume
Run#1	5.0 Gnl
Run#2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50	1.0	0.30	ug/l	J
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	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	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%

ND = Not Detected MDL = Method Detection Limit
 RL = Reporting Limit
 EE = Indicates Value Exceeds Calibration Range

J = Indicates an Estimated Value
 BE = Indicates Analyte Count and Associated Method Blank
 NE = Indicates Presumptive Evidence of a Compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-7C	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-4	Date Received:	06/18/10C
Matrix:	AQCC Ground Water CCCC	Percent Solids:	n/aC
Project:	AECCOL:DCP CCCC EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	385	5.0	mg/l	10	06/21/10 10:49	GH	EPA 800/SW846 8056

RLC Reporting Limit ~~CCCC~~

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-8C	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-5	Date Received:	06/18/10C
Matrix:	AQC Ground Water	Percent Solids:	n/aC
Method:	SW846 8260B		
Project:	AECCOL: DCP REXT		

Run#	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08487.D	1	06/20/10	DC	n/a	n/a	V5V457
Run#2							

Run#	Purge Volume
Run#1	5.0 Gnl
Run#2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	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	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%

ND = Not Detected MDL = Method Detection Limit
 RL = Reporting Limit
 EG = Indicates Value Exceeds Calibration Range

JE = Indicates an Estimated Value
 BG = Indicates Analyte Found in Associated Method Blank
 NE = Indicates Presumptive Evidence of Compound

Report of Analysis

Page 1 of 1

ClientSampleID:	MW-8C	DateSampled:	06/17/10C
LabSampleID:	D14408-5	DateReceived:	06/18/10C
Matrix:	AQCCGroundWaterCCCC	PercentSolids:	n/aC
Project:	AECCOL:DCPCCREXT		

GeneralChemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	553	5.0	mg/l	10	06/21/10C1:02	GH	EPAC00/SW846C056

RLC ReportingLimitCCCC

Report of Analysis

Page 1 of 1

Client Sample ID:	MW0UPC	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-6	Date Received:	06/18/10C
Matrix:	AQC Water Cup/MSD	Percent Solids:	n/aC
Method:	SW846 8260B		
Project:	AECCOL:0CP0REXT		

Run#	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08488.D	2	06/20/10	DC	n/a	n/a	V5V457
Run#2							

Run#	Purge Volume
Run#1	5.0 Gnl
Run#2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	353	2.0	0.60	ug/l	
108-88-3	Toluene	39.5	4.0	2.0	ug/l	
100-41-4	Ethylbenzene	63.2	4.0	0.60	ug/l	
	m,p-Xylene	6.1	8.0	1.2	ug/l	J
95-47-6	o-Xylene	2.7	4.0	1.2	ug/l	J

CAS No.	Surrogate Recoveries	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

ND = Not Detected MDL = Method Detection Limit
 RL = Reporting Limit
 EE = Indicates Value Exceeds Calibration Range

JE = Indicates an Estimated Value
 BE = Indicates Analyte Found in Associated Method Blank
 NE = Indicates Presumptive Evidence of a Compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW0UPC	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-6	Date Received:	06/18/10C
Matrix:	AQC Water Cup/MSD	Percent Solids:	n/aC
Project:	AECCOL:0CP0REXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	501	5.0	mg/l	10	06/21/10 11:16	GH	EPAG00/SW846056

RL Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: TRIPBLANKC
 Lab Sample ID: D14408-7
 Matrix: AQCC Trip Blank Water
 Method: SW846 260B
 Project: AECCOL:DCP REXT
 Date Sampled: 06/17/10C
 Date Received: 06/18/10C
 Percent Solids: n/aC

Run#	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08489.D	1	06/20/10	DC	n/a	n/a	V5V457
Run#2							

Run#	Purge Volume
Run#1	5.0Gnl
Run#2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	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	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

ND = Not Detected
 RL = Reporting Limit
 E = Indicates Value Exceeds Calibration Range
 MDL = Method Detection Limit

JE = Indicates an Estimated Value
 BE = Indicates Analyte Found in Associated Method Blank
 NE = Indicates Presumptive Evidence of a Compound

Report of Analysis

Page 1 of 1

Client Sample ID: PWD1C
Lab Sample ID: D14408-8
Matrix: AQC Ground Water
Method: SW846 8260B
Project: AECCOL:DCP/REXT

Date Sampled: 06/17/10C
Date Received: 06/18/10C
Percent Solids: n/aC

Run#	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08512.D	1	06/21/10	DC	n/a	n/a	V5V458
Run#2							

Run#	Purge Volume
Run#1	5.0 Gnl
Run#2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	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	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%

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

3.8
3

ClientSampleID:	PWD1C	DateSampled:	06/17/10C
LabSampleID:	D14408-8	DateReceived:	06/18/10C
Matrix:	AQCGroundWaterCCCC	PercentSolids:	n/aC
Project:	AECCOL:DCPCCREXT		

GeneralChemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	407	5.0	mg/l	10	06/21/1011:30	GH	EPAG00/SW8460056

Report of Analysis

Page 1 of 1

Client Sample ID:	PW02C	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-9	Date Received:	06/18/10C
Matrix:	AQ Ground Water	Percent Solids:	n/aC
Method:	SW846 8260B		
Project:	AECCOL: DCP REXT		

Run#	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08498.D	1	06/21/10	DC	n/a	n/a	V5V458
Run#2							

Run#	Purge Volume
Run#1	5.0 Gnl
Run#2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	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	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		70-130%
2037-26-5	Toluene-D8	92%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

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:	PWD2C	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-9	Date Received:	06/18/10C
Matrix:	AQCC Ground Water CCCC	Percent Solids:	n/aC
Project:	AECCOL: DCP RE EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	514	5.0	mg/l	10	06/21/10 1:43	GH	EPAG00/SW846 9056

RL ~~C~~ Reporting Limit ~~CCCC~~

Report of Analysis

Page 1 of 1

Client Sample ID: PWD0C
 Lab Sample ID: D14408-10
 Matrix: AQCC Ground Water CMC
 Method: SW846 8260B
 Project: AECCOL:DCP REXT

Date Sampled: 06/17/10C
 Date Received: 06/18/10C
 Percent Solids: n/aC

Run#	FileID	DF	Analyzed	By	PrepDate	PrepBatch	AnalyticalBatch
Run#1	5V08499.D	100	06/21/10	DC	n/a	n/a	V5V458
Run#2							

Run#	PurgeVolume
Run#1	5.0Cnl
Run#2	

Purgeable Aromatics

CASNo.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9320	100	30	ug/l	
108-88-3	Toluene	15200	200	100	ug/l	
100-41-4	Ethylbenzene	2570	200	30	ug/l	
	m,p-Xylene	4780	400	60	ug/l	
95-47-6	o-Xylene	1360	200	60	ug/l	

CASNo.	Surrogate Recoveries	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

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 Compound

Report of Analysis

ClientSampleID:	PWD10C	DateSampled:	06/17/10C
LabSampleID:	D14408-10	DateReceived:	06/18/10C
Matrix:	AQCGroundWater	PercentSolids:	n/aC
Project:	AECCOL:DCP		

GeneralChemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	656	10	mg/l	20	06/21/1016:02	GH	EPAG00/SW8460056

Report of Analysis

Page 1 of 1

Client Sample ID:	PWOC	Date Sampled:	06/17/10C
Lab Sample ID:	D14408-11	Date Received:	06/18/10C
Matrix:	AQCC Ground Water	Percent Solids:	n/aC
Method:	SW846 8260B		
Project:	AECCOL: OCP & EXT		

Run#	File#	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run#1	5V08500.D	500	06/21/10	DC	n/a	n/a	V5V458
Run#2							

Run#	Purge Volume
Run#1	5.0 Gnl
Run#2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	17000	500	150	ug/l	
108-88-3	Toluene	29800	1000	500	ug/l	
100-41-4	Ethylbenzene	2430	1000	150	ug/l	
	m,p-Xylene	4560	2000	300	ug/l	
95-47-6	o-Xylene	1140	1000	300	ug/l	

CAS No.	Surrogate Recoveries	Run#1	Run#2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

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

Page 1 of 1

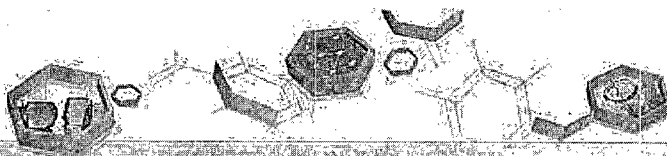
Client Sample ID: PW0C
Lab Sample ID: D14408-11
Matrix: AQC Ground Water
Project: AECCOL: OCP CORRECT

Date Sampled: 06/17/10C
Date Received: 06/18/10C
Percent Solids: n/aC

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	532	5.0	mg/l	10	06/21/10 12:38	GH	EPAC00/SW846 0056

RL Reporting Limit



IT'S ALL IN THE CHEMISTRY

Misc. Norms

Custody Documents And Other Norms

Includes The Following Where Applicable:

- Chain of Custody



CHAIN OF CUSTODY

D14408

PAGE 1 OF 2

4036 Youngfield Street, West Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Company Name AECOM	Project Name DCP RR EXT	Billing Information (if different from Report to)		BTEX 8260B CHLORIDE		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RS - Rinse Blank TB - Trip Blank	
Street Address 6885 South Marshall, Suite 3	Street	Company Name DCP Midstream					
City Littleton	City	Street Address 370 Seventeenth Street Suite 2500					
State CO	State	City Denver, CO 80202					
Zip 80128	Zip	Attention: Stephen Weathers					
Project Contact Michael Steward	Project # DCP RR EXT	Client Purchase Order #					
Phone # 303-605-1718	Project Manager A. Taylor						
Sampler(s) Name(s)		Collection		Number of preserved bottles		LAB USE ONLY	
Field ID / Point of Collection	MECH/OTI Vial #	Date	Time	Sampled by	Matrix	# of bottles	
MW-1	1150	6/17	1105	AT	GW	4	01
MW-2	1105	6/17	1150	1	GW		02
MW-3		X	X		GW		
MW-4		X	X		GW		
MW-5		X	X		GW		
MW-6		6/17	940		GW		03
MW-6 MS		6/17	940		GW		03ms
MW-6 MSD		6/17	940		GW		03SD
MW-7		6/17	830		GW		04
MW-8		6/17	1130		GW		05
MW-DUP	MW-2 Dup	6/17	000	✓	GW		06
TRIP BLANK		Lab	Lab	Lab	GW		07
Turnaround Time (Business days)		Data Deliverable Information		Comments / Special Instructions			
☐ Std. 15 Business Days ☐ Std. 10 Business Days ☒ 5 Day RUSH ☐ 3 Day Emergency ☐ 2 Day Emergency ☐ 1 Day Emergency		Approved By (Accutest PM): / Date:		Commercial "A" (Level 1) ☒ Commercial "B" (Level 2) ☐ COMMBN ☐ COMMBN+ Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial BN = Results/QC/Narrative (+ = chromatograms)			
Emergency & Rush: All data available via Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.		PLEASE SEND AN EHARD COPY TO SWEATHERS@DCPMIDSTREAM.COM			
Relinquished to:	Date/Time:	Received By:	Date/Time:	Relinquished to:	Date/Time:	Received By:	Date/Time:
1	6/17/10 500	1		2		2	6-18-10 930
3		3		4		4	
5		5		Custody Seal: ☒ Intact ☐ Not Intact Preserved where applicable On Ice Cooler Temp. 25			

D14408: Chain of Custody

Page 1 of 3



CHAIN OF CUSTODY

PAGE 2 OF 2

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL: 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

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

D14408

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes	
Company Name	DCP/AEC	Project Name	DCP RREXT														
Street Address	6885 S. Marshall St #	Street															
City	Littleton CO 80128	City															
State	CO	State															
Zip	80128	Zip															
Project Contact	Mike Stewart	Project #	DCP RREXT														
E-mail		Client Purchase Order #															
Phone #	303 638 0001	City	Denver CO 80202														
Fax #		State	CO														
Sample(s) Name(s)	Art Taylor	Attention	Stephen Weathers														
Phone #																	
Project Manager																	
Accutest Sample #	Field ID / Point of Collection	MEQ/VDI Vial #	2010 Date	Time	Sampled by	Matrix	# of bottles	HC	NH3	H2SO4	NO3	NO2	DI Water	MEQ	ENCORE	LAB USE ONLY	
	PW 11		6/17	1220	AT	GW	4	3									63
	PW 12			1240				3									09
	PW 10			100				3									10
	PW 9			136				3									11

Turnaround Time (Business days)	Approved By (Accutest PM) / Date:	Data Deliverable Information	Comments / Special Instructions
☐ Std. 10 Business Days ☐ UST Analysts 3-5 Days ☐ 6 - 9 Day RUSH ☐ 3 - 5 Day RUSH ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY		☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 Level 1 = Results Only Level 2 = Results + QC Summary + Case Narrative Level 3 = Results + QC Summary + Partial Raw data Level 4 = Full Deliverable	
Emergency & rush data available via Lablink		☐ PDF ☐ EDC Format ☐ Other	

Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished By:	Date/Time:	Received By:	Date/Time:
1	6/17/10 500	1	
Relinquished By:	Date/Time:	Received By:	Date/Time:
2		2	
Relinquished By:	Date/Time:	Received By:	Date/Time:
3		3	
Relinquished By:	Date/Time:	Received By:	Date/Time:
4		4	
Relinquished By:	Date/Time:	Received By:	Date/Time:
5		5	

Custody Seal # ☒ Intact ☐ Not Intact Preserved where applicable On Ice Cooler Temp. 2.5

F14

D14408: Chain of Custody

Page 2 of 3



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D14408 Client: AECOM Immediate Client Services Action Required: No
Date/Time Received: 6/18/2010 9:30:00 AM No. Coolers: 1 Client Service Action Required at Login: No
Project: DCPDREXT Airbill #'s: fedex

Cooler Security YES/NO YES/NO
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smp Dates/Time OK: ☒ ☐

Cooler Temperature YES/NO
1. Temp Criteria Achieved: ☒ ☐
2. Cooler Temp Verification: Infrared Gun
3. Cooler Media: Ice Bag

Quality Control Preservation YES/NO/NA
1. Trip Blank Present Cooler: ☐ ☐
2. Trip Blank Tested In COC: ☐ ☐
3. Samples Preserved Properly: ☒ ☐
4. VOCs Headspace Free: ☒ ☐ ☐

Sample Integrity Documentation YES/NO
1. Sample Labels Present On Bottles: ☒ ☐
2. Container Labeling Complete: ☒ ☐
3. Sample Container Label COC Agree: ☒ ☐

Sample Integrity Condition YES/NO
1. Sample Rec'd Within DIT: ☒ ☐
2. All Containers Accounted For: ☒ ☐
3. Condition of Sample: Intact

Sample Integrity Instructions YES/NO/NA
1. Analysis Requested Is Clear: ☒ ☐
2. Bottles Received For Unspecified Tests: ☐ ☒
3. Sufficient Volume Rec'd For Analysis: ☒ ☐
4. Compositing Instructions Clear: ☐ ☐ ☒
5. Filtering Instructions Clear: ☐ ☐ ☒

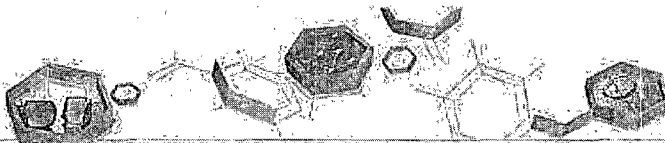
Comments

Accutest Laboratories
V:(303) 25-6021

4036 Youngfield Street
F:(303) 25-6854

Wheat Ridge, CO
www.accutest.com

D14408: Chain of Custody
Page 00 of 0



IT'S ALL IN THE CHEMISTRY

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

Page 1 of 1

Job Number: D14408

Account: DCPM CODN DCP Midstream, LP

Project: AECCOL: DCP RR EXT

Sample	FileID	DF	Analyzed	By	PrepDate	PrepBatch	AnalyticalBatch
V5V457-MB1	5V08469A.D1		06/20/10	DC	n/a	n/a	V5V457

The QC reported here applies to the following samples:

Method: pSW846p8260B

D14408-1, pD14408-2, pD14408-3, pD14408-4, pD14408-5, pD14408-6, pD14408-7

CASpNo.	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	

CASpNo.	Surrogate	Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	93%	70-130%
2037-26-5	Toluene-D8	90%	70-130%
460-00-4	4-Bromofluorobenzene	82%	70-130%

Method Blank Summary

Page 1 of 1

Job Number: D14408

Account: DCPM CODN DCP Midstream, LP

Project: AECCOL: DCP RR EXT

Sample	FileID	DF	Analyzed	By	PrepDate	PrepBatch	AnalyticalBatch
V5V458-MB2	5V08493.D	1	06/21/10	DC	n/a	n/a	V5V458

The QC reported here applies to the following samples:

Method: pSW846 p8260B

D14408-1, pD14408-8, pD14408-9, pD14408-10, pD14408-11

CASNo.	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	

CASNo.	Surrogate	Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	91%	70-130%
2037-26-5	Toluene-D8	91%	70-130%
460-00-4	4-Bromofluorobenzene	81%	70-130%

Blank Spike Summary

Page 1 of 1

Job Number: D14408

Account: DCPMCDN DCP Midstream, LP

Project: AECCOL: DCP RR EXT

Sample	FileHD	DF	Analyzed	By	PrepDate	PrepBatch	AnalyticalBatch
V5V457-BS1	5V08470A.D 1		06/20/10	DC	n/a	n/a	V5V457

The QC Reported Here Applies To The Following Samples:

Method: HSW846B260B

D14408-1, D14408-2, D14408-3, D14408-4, D14408-5, D14408-6, D14408-7

CASNo.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	51.3	103	70-130
100-41-4	Ethylbenzene	50	55.2	110	70-130
108-88-3	Toluene	50	52.9	106	70-140
	m,p-Xylene	50	48.6	97	55-134
95-47-6	o-Xylene	50	48.5	97	55-134

CASNo.	Surrogate	Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	85%	70-130%	
2037-26-5	Toluene-D8	90%	70-130%	
460-00-4	4-Bromofluorobenzene	97%	70-130%	

Blank Spike Summary

Page 1 of 1

Job Number: D14408

Account: DCPM CODN DCP Midstream, LP

Project: AECCOL: DCP RR EXT

Sample	File	HD	DF	Analyzed	By	PrepDate	PrepBatch	AnalyticalBatch
V5V458-BS2	5V08494.D	1		06/21/10	DC	n/a	n/a	V5V458

The QC reported here applies to the following samples:

Method: ESW846B260B

D14408-1, D14408-8, D14408-9, D14408-10, D14408-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	53.5	107	70-130
100-41-4	Ethylbenzene	50	58.3	117	70-130
108-88-3	Toluene	50	56.2	112	70-140
	m,p-Xylene	50	51.3	103	55-134
95-47-6	o-Xylene	50	52.5	105	55-134

CAS No.	Surrogate	Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	88%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D14408

Account: DCPM CODN DCP Midstream, LP

Project: AECCOL: DCP RR EXT

Sample	File#	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14408-3MS	5V08482.D	1	06/20/10	DC	n/a	n/a	V5V457
D14408-3MSD	5V08483.D	1	06/20/10	DC	n/a	n/a	V5V457
D14408-3	5V08481.D	1	06/20/10	DC	n/a	n/a	V5V457

The QC reported here applies to the following samples:

Method: HS W846 B260B

D14408-1, D14408-2, D14408-3, D14408-4, D14408-5, D14408-6, D14408-7

CAS No.	Compound	D14408-3 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	52.9	106	53.4	107	1	59-132/30
100-41-4	Ethylbenzene	ND	50	57.0	114	58.0	116	2	68-130/30
108-88-3	Toluene	ND	50	54.8	110	56.3	113	3	56-142/30
	m,p-Xylene	ND	50	50.8	102	51.3	103	1	36-146/30
95-47-6	o-Xylene	ND	50	51.3	103	51.2	102	0	36-146/30

CAS No.	Surrogate Recoveries	MS	MSD	D14408-3	Limits
17060-07-0	1,2-Dichloroethane-D4	93%	82%	95%	70-130%
2037-26-5	Toluene-D8	94%	93%	91%	70-130%
460-00-4	4-Bromofluorobenzene	100%	100%	82%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D14408

Account: DCPMCDN DCP Midstream, LP

Project: AECCOL: DCP RR EXT

Sample	File#	DF	Analyzed	By	PrepDate	PrepBatch	AnalyticalBatch
D14411-2MS	5V08496.D	1	06/21/10	DC	n/a	n/a	V5V458
D14411-2MSD	5V08497.D	1	06/21/10	DC	n/a	n/a	V5V458
D14411-2	5V08495.D	1	06/21/10	DC	n/a	n/a	V5V458

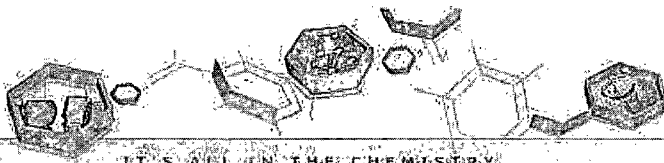
The QCF reported here applies to the following samples:

Method: HSW846B260B

D14408-1, D14408-8, D14408-9, D14408-10, D14408-11

CASNo.	Compound	D14411-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		50	52.1	104	54.8	110	5	59-132/30
100-41-4	Ethylbenzene	ND		50	54.9	110	57.6	115	5	68-130/30
108-88-3	Toluene	ND		50	52.0	104	55.3	111	6	56-142/30
	m,p-Xylene	ND		50	47.9	96	50.9	102	6	36-146/30
95-47-6	o-Xylene	ND		50	49.8	100	52.1	104	5	36-146/30

CASNo.	Surrogate	Recoveries	MS	MSD	D14411-2	Limits
17060-07-0	1,2-Dichloroethane-D4		85%	85%	95%	70-130%
2037-26-5	Toluene-D8		90%	91%	90%	70-130%
460-00-4	4-Bromofluorobenzene		101%	99%	88%	70-130%



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: D14408
Account: DCPMCDN - DCP Midstream, LP
Project: AECCOL: DCP RR EXT

Analyte	Batch	ID	MB	Spike	BS	BS	QC	Limit
Chloride	GP2188	/GN4964	0.50	0.20	mg	1	20	19.1
Fluoride	GP2188	/GN4964	0.20	0.10	mg	1	10	9.65

Associated Samples:

Batch GP2188: pD14408-1, pD14408-10, pD14408-11, pD14408-2, pD14408-3, pD14408-4, pD14408-5, pD14408-6, pD14408-8, pD14408-9
(*) pOutside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14408
Account: DCPMCDN - DCP Midstream, LP
Project: AECCOL: DCP RR EXT

Analyte	Batch	QID	Sample	Units	Result	Amount	Result	*Rec	Limits
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Chloride	GP2188	GN4964	QD14074	-30000mg/l	1.40000	1000000	10.90000	95.00000	80-120%
Fluoride	GP2188	GN4964	QD14074	-30000mg/l	0.29000	200000	2.50000	92.40000	80-120%

Associated Samples: Q
Batch GP2188: QD14408-1, QD14408-10, QD14408-11, QD14408-2, QD14408-3, QD14408-4, QD14408-5, QD14408-6, QD14408-8, QD14408-9
(*) Q Outside of QC Limits
(N) Q Matrix Spike Rec. Q Outside of QC Limits

6.2



MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14408
Account: DCPMCDN - DCP Midstream, LP
Project: AECCOL: DCP RR EXT

Analyte	Batch	ID	Sample	Units	Result	Amount	Result	RPD	Limit
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Chloride	GP2188	GN4964	QD14074-3	mg/l	1.4	10.9	0.0	20%	
Fluoride	GP2188	GN4964	QD14074-3	mg/l	0.29	2.6	0.0	20%	

Associated Samples:

Batch GP2188: QD14408-1, QD14408-10, QD14408-11, QD14408-2, QD14408-3, QD14408-4, QD14408-5, QD14408-6, QD14408-8, QD14408-9

(*) Outside of QC limits

(N) Matrix Spike Rec. Outside of QC limits