

AP-055

MONITORING REPORT

DATE:

2nd QTR 2009



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

September 28, 2009

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

**RE: 2nd Quarter 2009 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
2009 SEP 29 A 11:31

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 2nd Quarter 2009 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).

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

September 16, 2009

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

Re: Second Quarter 2009 Groundwater Monitoring Report
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 2009 groundwater monitoring event that was completed on May 19, 2009 at the DCP Midstream (DCP) RR Ext Site (Figure 1). The well locations are shown on Figure 2. All eight monitoring wells were purged and sampled.

SUMMARY OF GROUNDWATER MONITORING ACTIVITIES

The construction information for the wells is summarized in Table 1. The 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, xylenes (BTEX, Using EPA Method SW846 8260B) and for chlorides (Method SM 4500 CL C). A field duplicate from MW-2 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 water gauging data are summarized in Table 2. Well hydrographs are plotted on Figure 3. Figure 3 indicates that the water table declined the same approximate amount in all wells except MW-1 where the decline was much greater. The MW-1 hydrograph shows that the May 2009 value returned to historic position near to MW-3. The most obvious explanation for this return is that any residual mounding effects related to the remediation excavation (now filled) have dissipated.

The measured water table elevations were also 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 to the south-southeast down gradient of MW-4, MW-5 and MW-7.

The quality control evaluation 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 and matrix spike duplicate values were acceptable.
- The relative percentage difference (RPD) values for benzene, toluene and ethylbenzene were all less than 20 percent (Table 3). The RPD values for xylenes and chlorides were 23.5 percent and 27.1 percent respectively.

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

The sampling data are summarized in Table 3. The measured field parameters and a copy of the laboratory report are attached. The New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are included at the top of Table 3. Wells MW-1, MW-2, MW-3 and MW-4 exceeded the benzene standard. Wells MW-2, MW-3 and MW-4 exceeded the toluene and xylenes standards. Wells MW-2 and MW-3 exceeded the ethylbenzene standard. There were no exceedences in wells MW-5, MW-6, MW-7 and MW-8.

Figure 5 shows the benzene isopleths for the second quarter 2009 based upon contouring with the Surfer program using the kriging option. The extent of benzene effects is delineated to the east, at MW-7, and to the southeast at MW-6. Additional control is necessary to delineate the extent of affected groundwater to the south and southwest.

The BTEX data collected for this project are summarized in Table 4. Figure 6 graphs the benzene concentration verses time for MW-1, MW-2, MW-3, MW-4, and MW-5. Three trends are evident:

1. The concentrations in MW-2 and MW-5 have remained relatively constant over the duration of the project.
2. The concentrations in MW-1 and MW-3 have increased over the last one or two sampling events. This pattern indicates a potential link to enhanced infiltration from when the remediation excavation was open; and
3. The concentration has steadily increased in MW-4 over the duration of the project. This trend indicates that the dissolved phase hydrocarbon plume has expanded to the south.

The samples were also submitted for chlorides analysis. Chloride data are summarized in Table 5. Figure 7 shows the chlorides isopleths for the second quarter 2009 based upon contouring with the Surfer program using the kriging option. The distribution is similar to that shown for the benzene except the lowest chloride concentration is at MW-2. This pattern is opposite of that shown for benzene where the highest concentration was present at MW-2. This distribution may have resulted from fresh water infiltration in the source area into an area of overall higher chloride concentrations.

The chloride concentrations verses time are plotted on Figure 8. The concentrations increased in MW-1, MW-3, MW-5, MW-6 and MW-7. The concentrations decreased in MW-2, MW-4 and MW-8. The long-term chloride trend in MW-4 is similar to that of the benzene trend except that the lower chloride concentrations in the infiltrating water have

produced a decreasing trend rather than an increasing trend. This fact establishes that the chlorides that are present in the groundwater predate the DCP release.

RECOMMENDATIONS

The data from MW-4 indicates that the dissolved-phase hydrocarbon plume is probably expanding to the south or southwest. AEC believes that the recently-completed soils remediation activities should stabilize and eventually reduce the extent of the dissolved phase hydrocarbon plume but it will take time for the indications of these changes to appear.

The plume boundaries have to be defined under any remediation option. AEC recommends that the third quarter data be reviewed prior to formulating additional characterization activities. A letter work plan will be prepared as necessary following receipt and validation of the third-quarter data so that any additional field work can be completed between sampling events.

The next sampling event will be completed during the third quarter of 2009. 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	Stickup	Total Depth (ground)	Screen Interval (ground)	Sand Interval
MW-1	3/08	2.06	37.5	17.5-37.5	16-37.5
MW-2	3/08	2.41	37.5	17.5-37.5	16-37.5
MW-3	3/08	2.53	37.5	17.5-37.5	16-37.5
MW-4	3/08	3.16	37.5	17.5-37.5	16-37.5
MW-5	3/08	2.15	37.5	17.5-37.5	16-37.5
MW-6	6/08	2.18	37.5	17.5-37.5	16-37.5
MW-7	6/08	2.36	37.5	17.5-37.5	16-37.5
MW-8	6/08	2.76	37.5	17.5-37.5	16-37.5

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 May 19, 2009 Water Table Data

Well	Depth to Water	Water Table Elevation
MW-1	29.55	3505.02
MW-2	30.31	3504.87
MW-3	31.54	3505.03
MW-4	30.57	3504.63
MW-5	31.28	3504.64
MW-6	31.65	3504.51
MW-7	32.37	3504.72
MW-8	31.27	3505.14

Notes: Units are Feet

Table 3 - RR Ext Second Quarter 2009 Groundwater Sampling Results

Well	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chlorides
NMWQCC Standards	.010	0.75	0.75	0.62	250*
MW-1	1.38	0.175	0.0705	0.065	462
MW-2	32.7	1.31	0.791	1.69	94.4
MW-2 Dup	30.7	1.43	0.907	2.14	124
MW-3	14.7	12.6	0.808	1.64	313
MW-4	4.7	2.94	0.428	1.03	226
MW-5	0.0064	0.0089	0.0025	0.0045 J	363
MW-6	<0.002	<0.002	<0.002	<0.006	308
MW-7	<0.002	<0.002	<0.002	<0.006	298
MW-8	0.0098	0.0049	<0.002	<0.006	450
TRIP BLANK	<0.002	<0.002	<0.002	<0.006	--

Notes: Units mg/l

NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards

J qualifier: Estimated value that falls between the method detection and method reporting limits

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

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

Average and Relative Percentage Difference Values for MW-2 and MW-2 Duplicate

	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloride
Average (mg/l)	31.7	1.37	0.849	1.915	109.2
RPD (%)	6.3	8.8	13.7	23.5	27.1

Table 4 - RR Ext BTEX Groundwater Monitoring Results Summary

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
WQCC 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
Dup	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
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
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
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

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

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
WQCC Standards		.010	0.75	0.75	0.62
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
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
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
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

Notes: Units mg/l
 NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards
 J qualifiers are not included
 Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

Table 5 - RR Ext Chlorides Groundwater Monitoring Results Summary

Client ID	9/08	12/08	3/09	5/09
MW-1	507	447	432	462
MW-2	109	NS	114	109
MW-3	363	301	273	313
MW-4	318	281	229	226
MW-5	373	318	288	363
MW-6	363	325	298	308
MW-7	378	348	283	298
MW-8	512	393	472	450

Notes: Units are mg/l

FIGURES

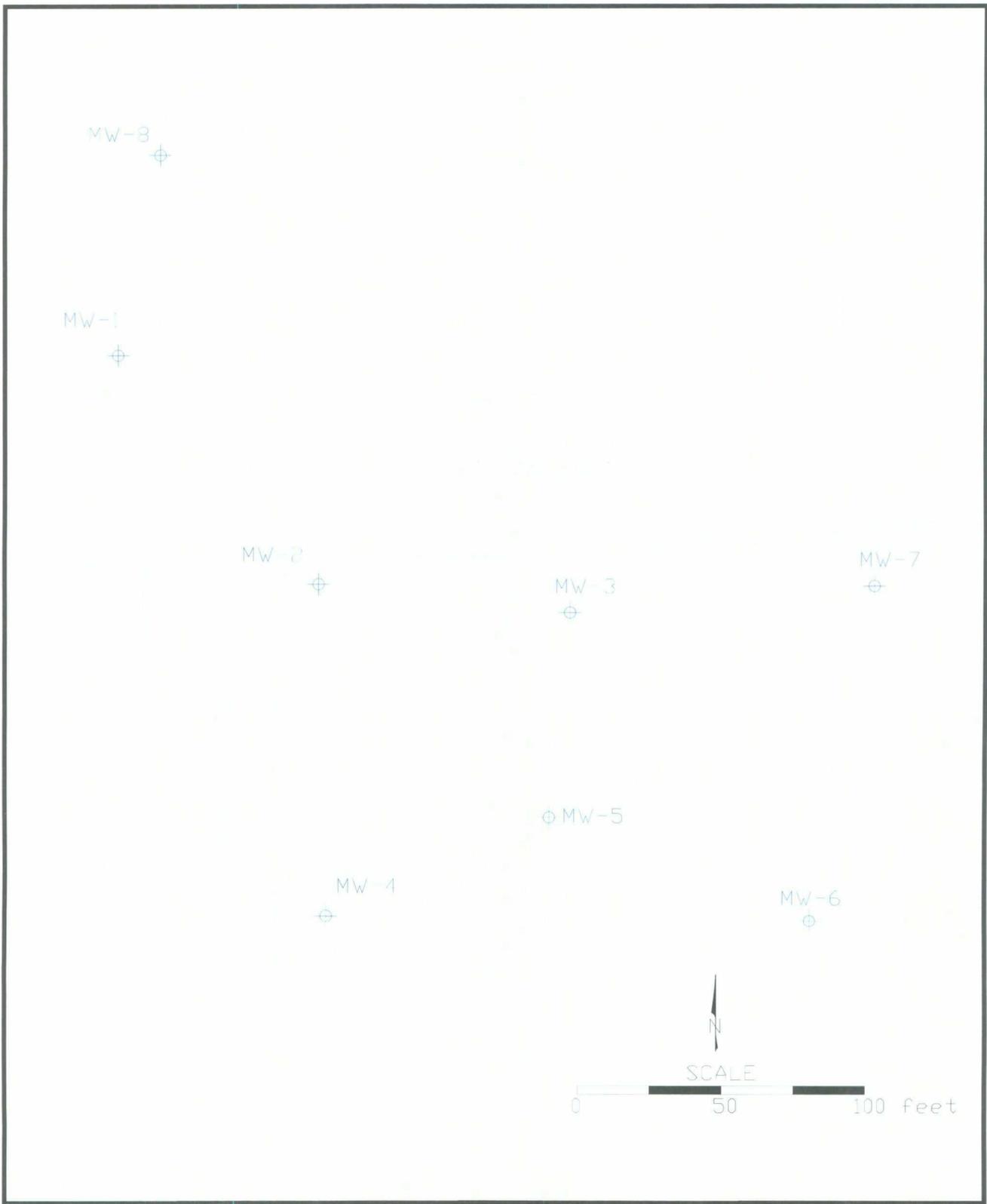


Figure 2 – Monitoring Well Locations
RR Ext. AP #55



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REVISED:
DATE: 1/09

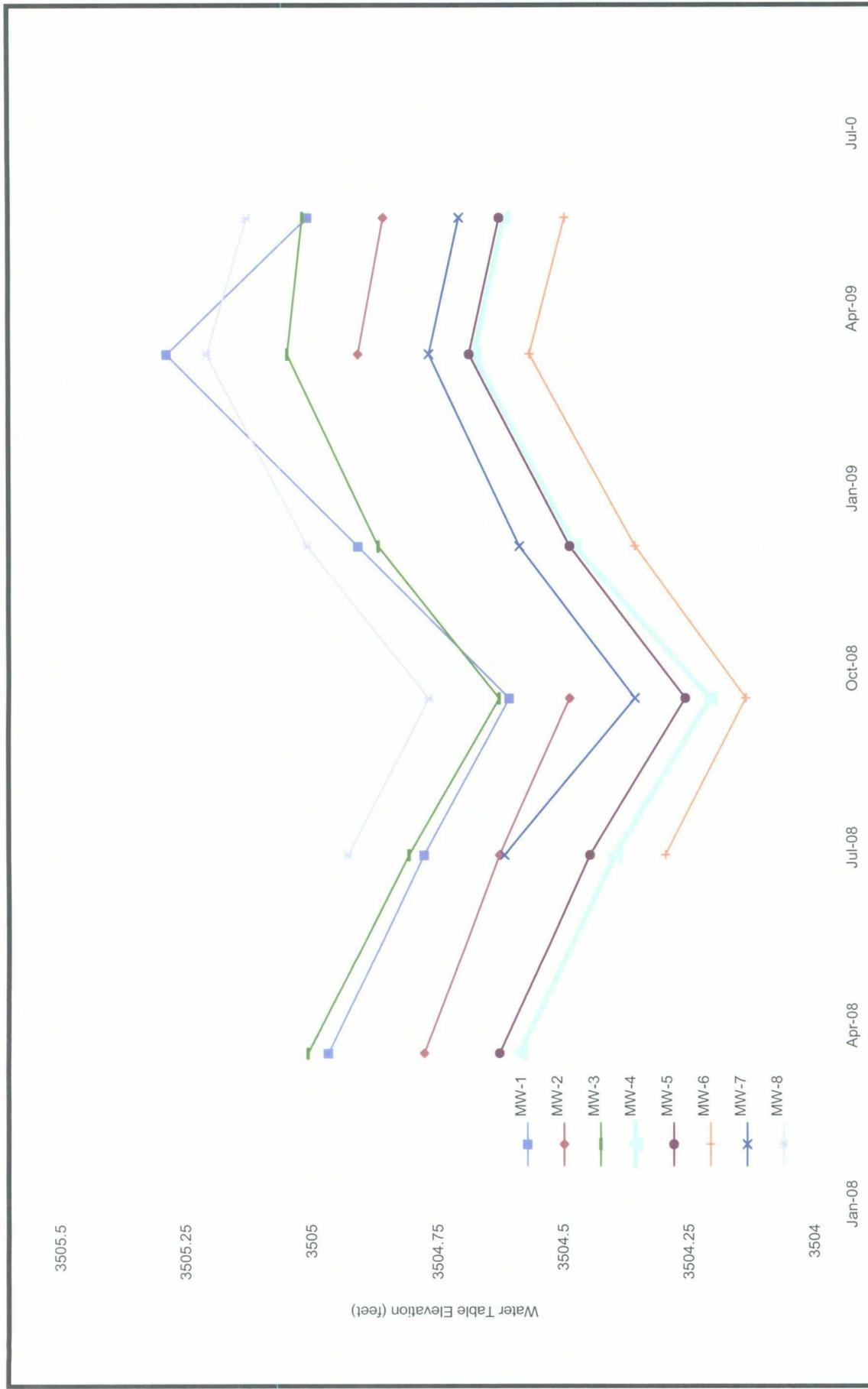


Figure 3 – Monitoring Well Hydrographs

RR EXT AP #55



DRAWN BY: MHS
DATE: 8/09

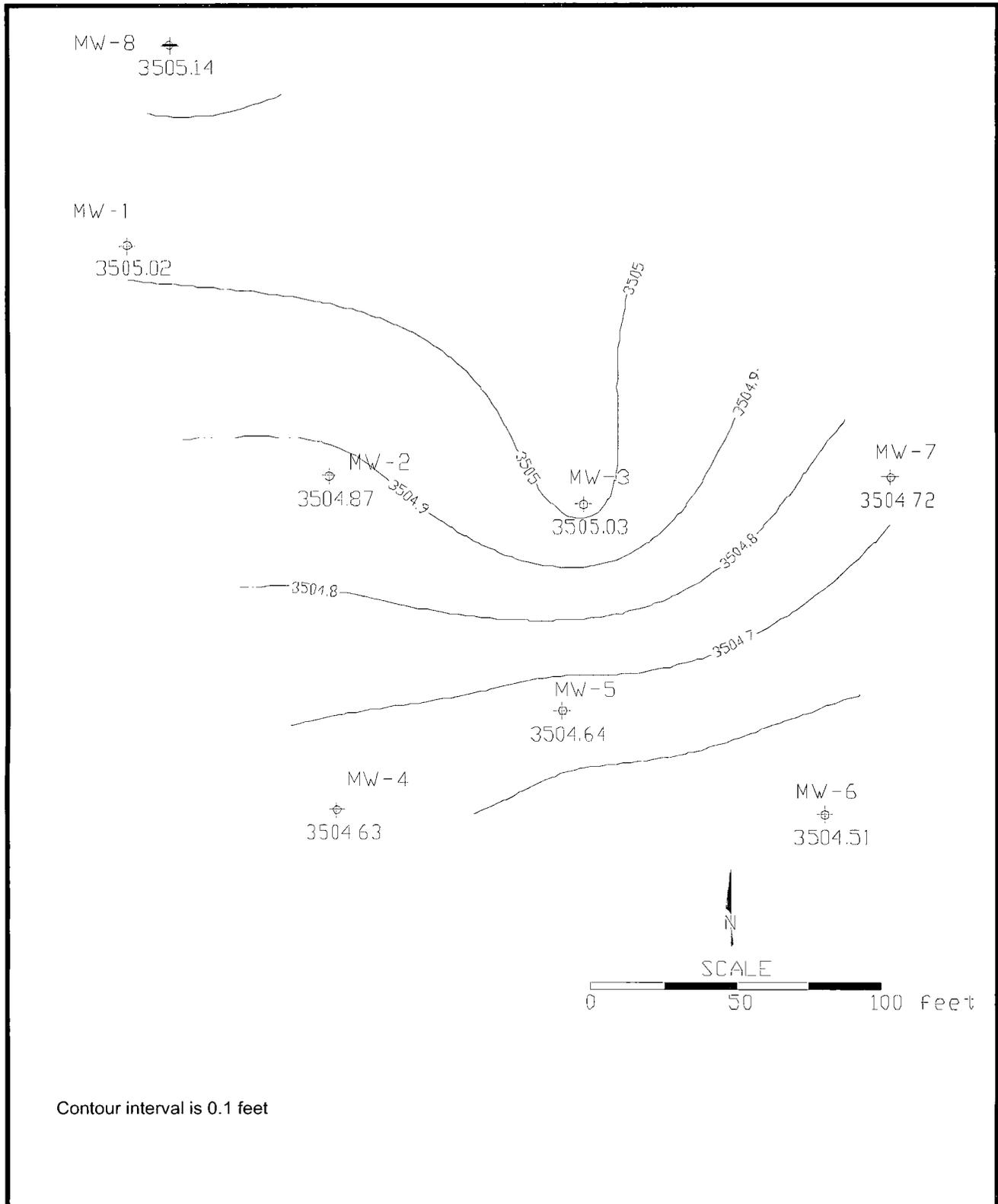


Figure 4 – May 19, 2009 Water Table Contours
RR Ext. AP #55



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REVISED:
DATE: 8/09

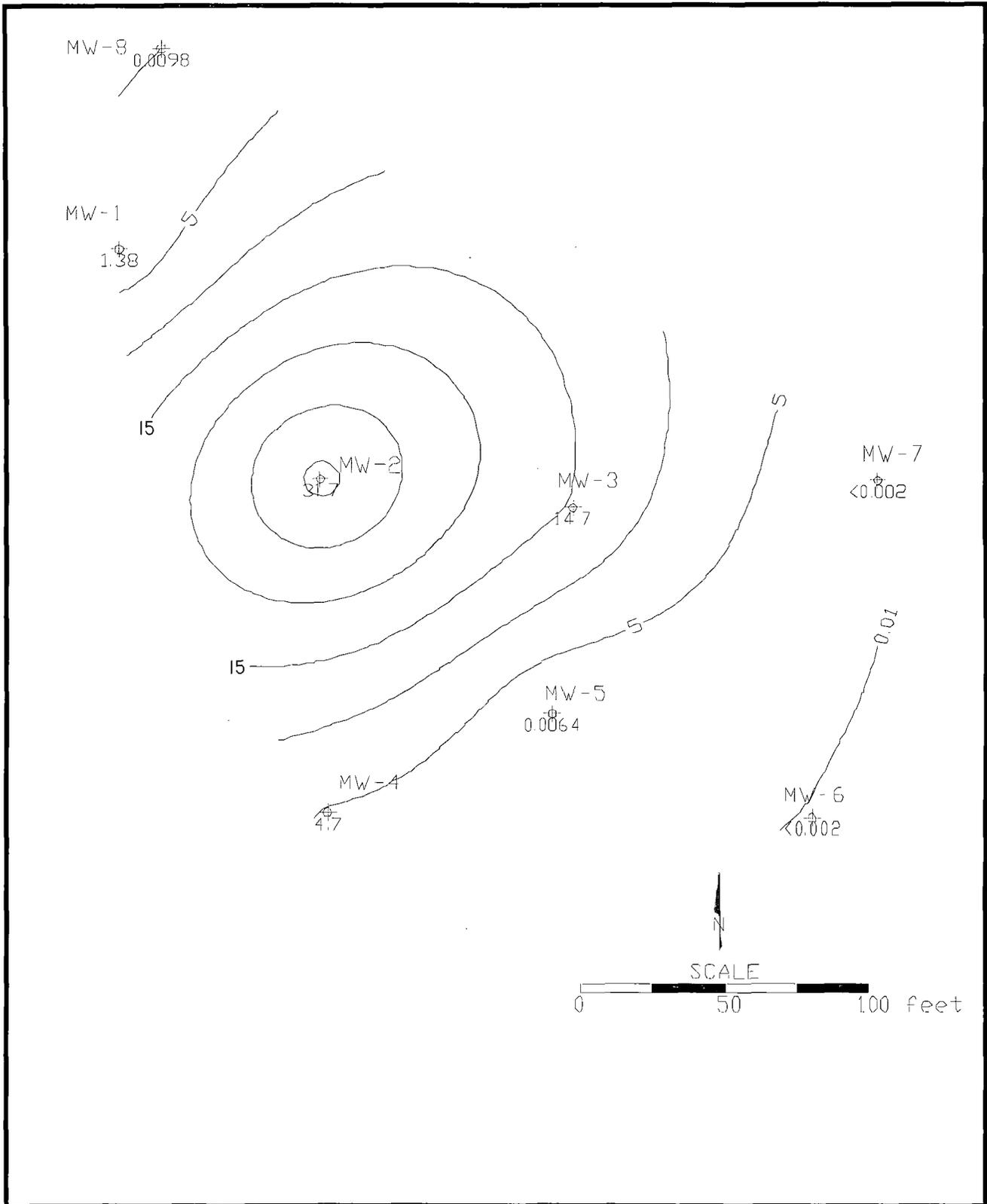


Figure 5 – Second Quarter 2009 Benzene Concentrations
RR Ext. AP #55



DRAWN BY: MHS

REVISED:

8/09

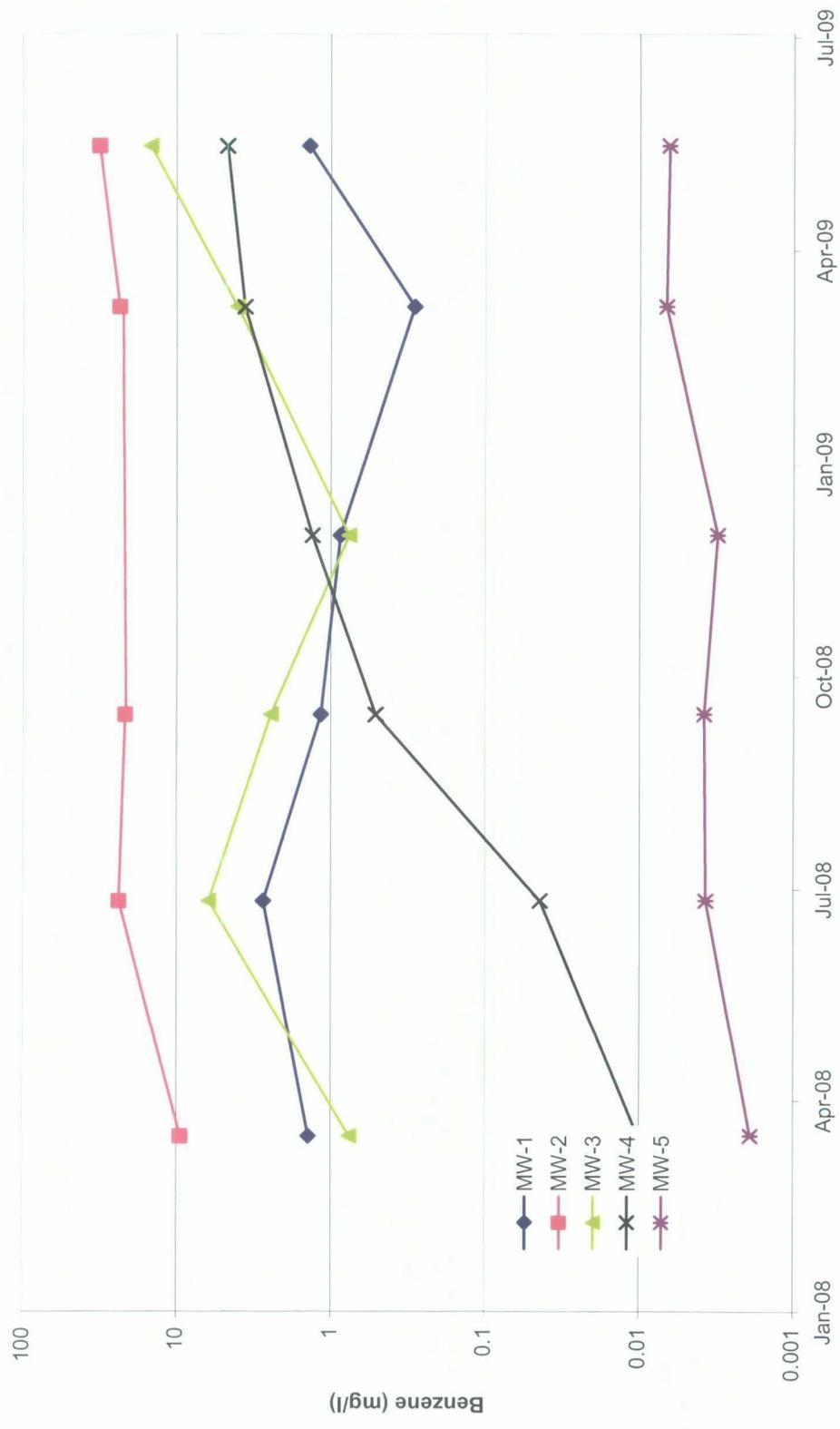


Figure 6 – Benzene Concentrations Verses Time

RR EXT AP #55

DRAWN BY: MHS

DATE: 4/09



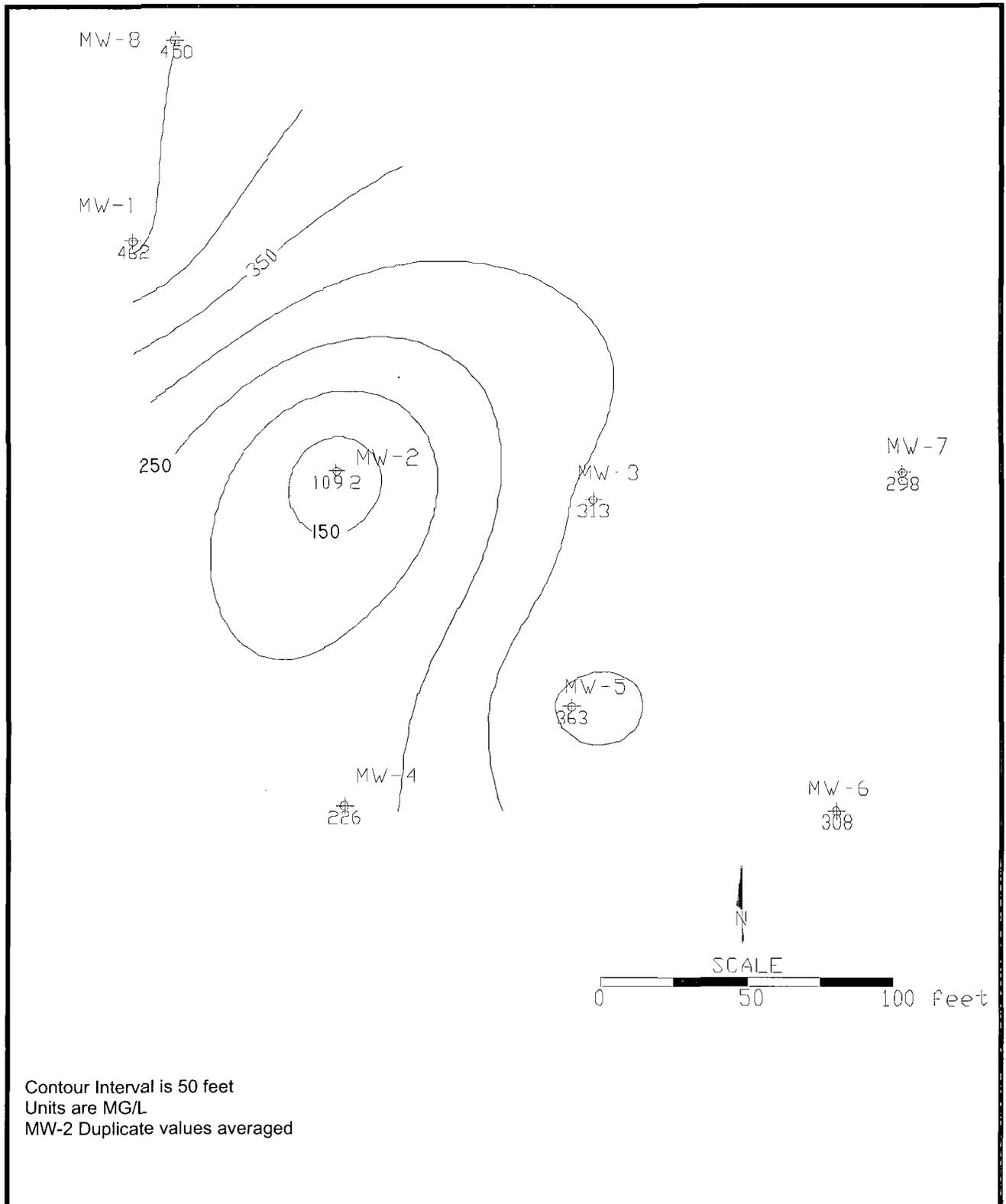


Figure 7 – Second Quarter 2009 Chlorides Concentrations
 RR Ext. AP #55



DRAWN BY: MHS
REVISED:
DATE: 8/09

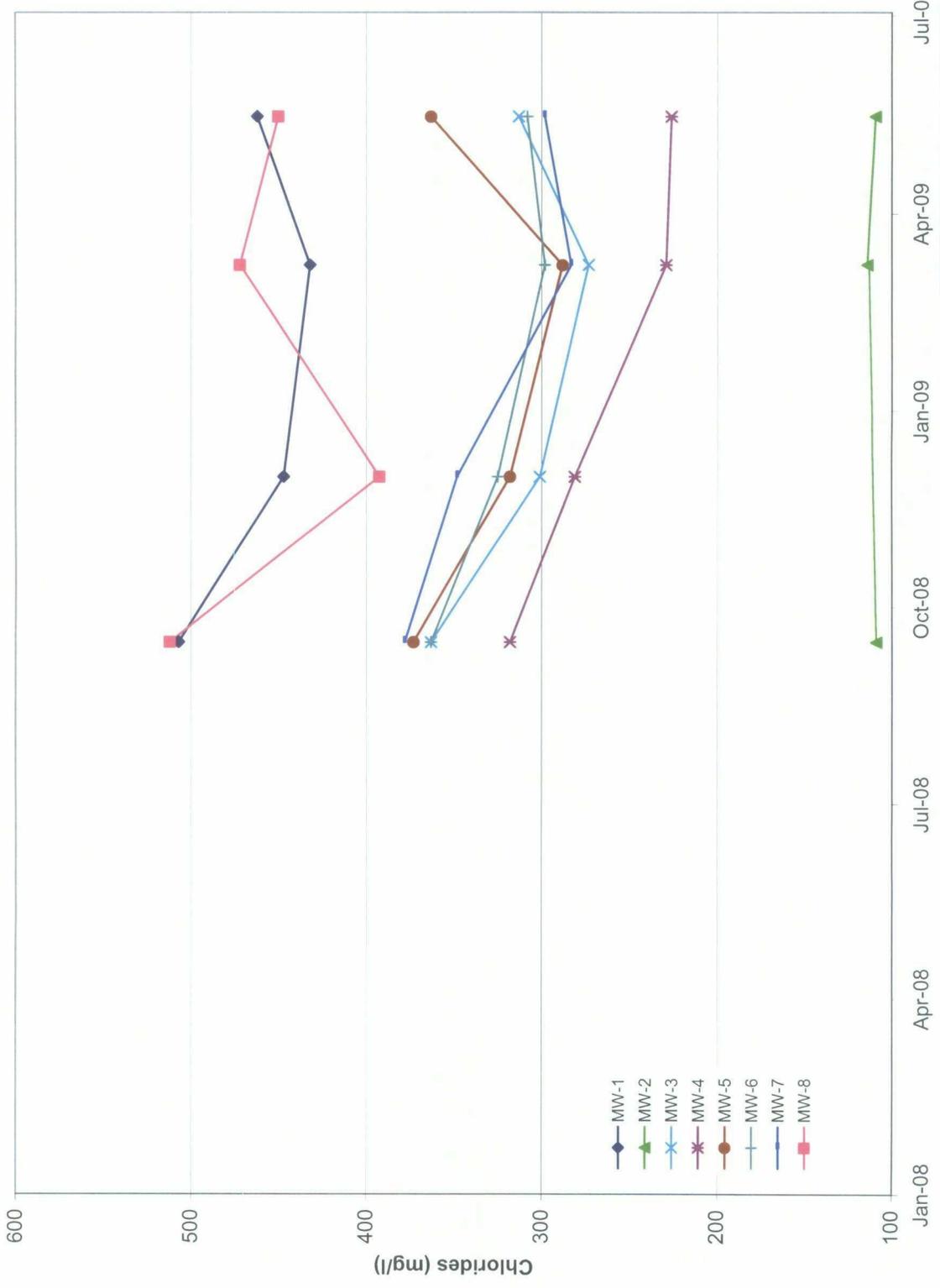


Figure 8 – Chloride Concentrations Verses Time

ATTACHMENT

WELL SAMPLING DATA AND
ANALYTICAL LABORATORY REPORT



08/23/09

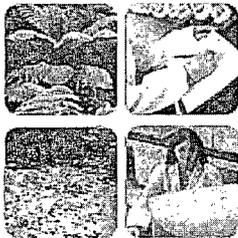
Technical Report for

DCP Midstream, LLC

AECCOLI: DCP Midstream RR Ext

Accutest Job Number: T29684

Sampling Date: 05/19/09



Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

Total number of pages in report: 35



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.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Sample Summary

DCP Midstream, LLC

Job No: T29684

AECCOLI: DCP Midstream RR Ext

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T29684-1	05/19/09	11:00 AT	05/22/09	AQ	Ground Water	MW-1
T29684-2	05/19/09	11:50 AT	05/22/09	AQ	Ground Water	MW-2
T29684-3	05/19/09	11:25 AT	05/22/09	AQ	Ground Water	MW-3
T29684-4	05/19/09	10:05 AT	05/22/09	AQ	Ground Water	MW-4
T29684-5	05/19/09	09:35 AT	05/22/09	AQ	Ground Water	MW-5
T29684-6	05/19/09	09:00 AT	05/22/09	AQ	Ground Water	MW-6
T29684-6D	05/19/09	09:00 AT	05/22/09	AQ	Ground Water	MW-6
T29684-6S	05/19/09	09:00 AT	05/22/09	AQ	Ground Water	MW-6
T29684-7	05/19/09	08:30 AT	05/22/09	AQ	Ground Water	MW-7
T29684-8	05/19/09	10:35 AT	05/22/09	AQ	Ground Water	MW-8
T29684-9	05/19/09	00:00 AT	05/22/09	AQ	Ground Water	DUP
T29684-10	05/19/09	00:00 AT	05/22/09	AQ	Trip Blank Water	TRIP BLANK



IT'S ALL IN THE CHEMISTRY

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1	Date Sampled:	05/19/09
Lab Sample ID:	T29684-1	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000930.D	1	05/28/09	RR	n/a	n/a	VC40
Run #2	C0000931.D	10	05/28/09	RR	n/a	n/a	VC40

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.38 ^a	0.020	0.0046	mg/l	
108-88-3	Toluene	0.175	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.0705	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.0650	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	117%	113%	75-121%
2037-26-5	Toluene-D8	111%	112%	87-119%
460-00-4	4-Bromofluorobenzene	101%	103%	80-133%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1	Date Sampled:	05/19/09
Lab Sample ID:	T29684-1	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	462	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	05/19/09
Lab Sample ID:	T29684-2	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000932.D	100	05/28/09	RR	n/a	n/a	VC40
Run #2	C0000933.D	200	05/28/09	RR	n/a	n/a	VC40

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	32.7 ^a	0.40	0.092	mg/l	
108-88-3	Toluene	1.31	0.20	0.048	mg/l	
100-41-4	Ethylbenzene	0.791	0.20	0.045	mg/l	
1330-20-7	Xylene (total)	1.69	0.60	0.14	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	114%	117%	75-121%
2037-26-5	Toluene-D8	115%	114%	87-119%
460-00-4	4-Bromofluorobenzene	99%	102%	80-133%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	05/19/09
Lab Sample ID:	T29684-2	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	94.4	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-3	Date Sampled: 05/19/09
Lab Sample ID: T29684-3	Date Received: 05/22/09
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOLI: DCP Midstream RR Ext	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000934.D	100	05/28/09	RR	n/a	n/a	VC40
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	14.7	0.20	0.046	mg/l	
108-88-3	Toluene	12.6	0.20	0.048	mg/l	
100-41-4	Ethylbenzene	0.808	0.20	0.045	mg/l	
1330-20-7	Xylene (total)	1.64	0.60	0.14	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	112%		75-121%
2037-26-5	Toluene-D8	112%		87-119%
460-00-4	4-Bromofluorobenzene	106%		80-133%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3	Date Sampled:	05/19/09
Lab Sample ID:	T29684-3	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	313	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-4	Date Sampled:	05/19/09
Lab Sample ID:	T29684-4	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000935.D	100	05/28/09	RR	n/a	n/a	VC40
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	4.70	0.20	0.046	mg/l	
108-88-3	Toluene	2.94	0.20	0.048	mg/l	
100-41-4	Ethylbenzene	0.428	0.20	0.045	mg/l	
1330-20-7	Xylene (total)	1.03	0.60	0.14	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	118%		75-121%
2037-26-5	Toluene-D8	114%		87-119%
460-00-4	4-Bromofluorobenzene	104%		80-133%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4	Date Sampled:	05/19/09
Lab Sample ID:	T29684-4	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	226	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5	Date Sampled:	05/19/09
Lab Sample ID:	T29684-5	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000925.D	1	05/28/09	RR	n/a	n/a	VC40
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	0.0064	0.0020	0.00046	mg/l	
108-88-3	Toluene	0.0089	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.0025	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.0045	0.0060	0.0014	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-122%
17060-07-0	1,2-Dichloroethane-D4	117%		75-121%
2037-26-5	Toluene-D8	114%		87-119%
460-00-4	4-Bromofluorobenzene	99%		80-133%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5	Date Sampled:	05/19/09
Lab Sample ID:	T29684-5	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	363	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6	Date Sampled:	05/19/09
Lab Sample ID:	T29684-6	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000919.D	1	05/28/09	RR	n/a	n/a	VC40
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	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	113%		75-121%
2037-26-5	Toluene-D8	112%		87-119%
460-00-4	4-Bromofluorobenzene	95%		80-133%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6	Date Sampled:	05/19/09
Lab Sample ID:	T29684-6	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	308	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-7	Date Sampled:	05/19/09
Lab Sample ID:	T29684-7	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000923.D	1	05/28/09	RR	n/a	n/a	VC40
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	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-122%
17060-07-0	1,2-Dichloroethane-D4	116%		75-121%
2037-26-5	Toluene-D8	114%		87-119%
460-00-4	4-Bromofluorobenzene	98%		80-133%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7	Date Sampled:	05/19/09
Lab Sample ID:	T29684-7	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	298	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-8	Date Sampled: 05/19/09
Lab Sample ID: T29684-8	Date Received: 05/22/09
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOLI: DCP Midstream RR Ext	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000924.D	1	05/28/09	RR	n/a	n/a	VC40
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	0.0098	0.0020	0.00046	mg/l	
108-88-3	Toluene	0.0049	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	113%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	97%		80-133%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8	Date Sampled:	05/19/09
Lab Sample ID:	T29684-8	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	450	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP	Date Sampled:	05/19/09
Lab Sample ID:	T29684-9	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000936.D	200	05/28/09	RR	n/a	n/a	VC40
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	30.7	0.40	0.092	mg/l	
108-88-3	Toluene	1.43	0.40	0.097	mg/l	
100-41-4	Ethylbenzene	0.907	0.40	0.091	mg/l	
1330-20-7	Xylene (total)	2.14	1.2	0.27	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	115%		75-121%
2037-26-5	Toluene-D8	116%		87-119%
460-00-4	4-Bromofluorobenzene	105%		80-133%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP	Date Sampled:	05/19/09
Lab Sample ID:	T29684-9	Date Received:	05/22/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	124	10	mg/l	10	05/29/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/19/09
Lab Sample ID:	T29684-10	Date Received:	05/22/09
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000918.D	1	05/28/09	RR	n/a	n/a	VC40
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	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-122%
17060-07-0	1,2-Dichloroethane-D4	115%		75-121%
2037-26-5	Toluene-D8	113%		87-119%
460-00-4	4-Bromofluorobenzene	95%		80-133%

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



IT'S ALL IN THE CHEMISTRY



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SAMPLE INSPECTION FORM

Accutest Job Number: T29684 Client: D.P. Midstream Date/Time Received: 05/22/09 0915
 # of Coolers Received: 1 Thermometer #: 18-1 Temperature Adjustment Factor: -0.4
 Cooler Temps: #1: 2.2 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
 Method of Delivery: **FEDEx** UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: _____

COOLER INFORMATION

Custody seal missing or not intact
 Temperature criteria not met
 Wet ice received in cooler

CHAIN OF CUSTODY

Chain of Custody not received
 Sample D/T unclear or missing
 Analyses unclear or missing
 COC not properly executed

SAMPLE INFORMATION

Sample containers received broken
 VOC vials have headspace
 Sample labels missing or illegible
 ID on COC does not match label(s)
 D/T on COC does not match label(s)
 Sample/Bottles recvd but no analysis on COC
 Sample listed on COC, but not received
 Bottles missing for requested analysis
 Insufficient volume for analysis
 Sample received improperly preserved

TRIP BLANK INFORMATION

Trip Blank on COC but not received
 Trip Blank received but not on COC
 Trip Blank not intact
 Received Water Trip Blank
 Received Soil TB

Number of Encores? _____
 Number of 5035 kits? _____
 Number of lab-filtered metals? _____

Summary of Discrepancies:
1 MW-8 one out of 3 vials broke for BTEX analysis.

TECHNICIAN SIGNATURE/DATE: [Signature] 05/22/09

INFORMATION AND SAMPLE LABELING VERIFIED BY: GC 5-229

* * * * * **CORRECTIVE ACTIONS** * * * * *

Client Representative Notified: _____ Date: _____

By Accutest Representative: _____ Via: Phone Email

Client Instructions:

SAMPLE RECEIPT LOG

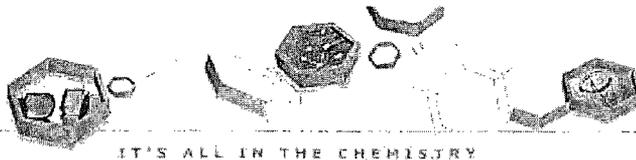
JOB #: T29684 DATE/TIME RECEIVED: 05/22/09 0915

CLIENT: DCP Midstream INITIALS: FF

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL.	BOTTLE #	LOCATION	PRESERV	PH
	1	MW-1	05/19/09 1100	W	500ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
	2	MW-2	1125		500ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
	3	MW-3	1125		500ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
	4	MW-4	1005		500ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
	5	MW-5	935		500ml 40ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
	6	MW-6/M5/MSD	900		500ml	1-3	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	4-12	VR	① 2 3 4 5 6 7 8	<2 >12
	7	MW-7	830		500ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
	8	MW-8	1015		500ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
	9	Dup	000		500ml	1	IMM	① 2 3 4 5 6 7 8	<2 >12
	"	"	"		40ml	2-4	VR	① 2 3 4 5 6 7 8	<2 >12
↓	10	Trip Blank	—	↓	40ml	1-2	VR	① 2 3 4 5 6 7 8	<2 >12
							FF	05/22/09	

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NaOH 6: DI 7: MeOH 8: Other
 LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer
 Rev 8/13/01 ewp

T29684: Chain of Custody
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T29684
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC40-MB	C0000917.D	1	05/28/09	RR	n/a	n/a	VC40

The QC reported here applies to the following samples:

Method: SW846 8260B

T29684-1, T29684-2, T29684-3, T29684-4, T29684-5, T29684-6, T29684-7, T29684-8, T29684-9, T29684-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 79-122%
17060-07-0	1,2-Dichloroethane-D4	111% 75-121%
2037-26-5	Toluene-D8	113% 87-119%
460-00-4	4-Bromofluorobenzene	97% 80-133%

Blank Spike Summary

Job Number: T29684
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC40-BS	C0000915.D	1	05/28/09	RR	n/a	n/a	VC40

4.2.1
4

The QC reported here applies to the following samples:

Method: SW846 8260B

T29684-1, T29684-2, T29684-3, T29684-4, T29684-5, T29684-6, T29684-7, T29684-8, T29684-9, T29684-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.2	109	76-118
100-41-4	Ethylbenzene	25	24.7	99	75-112
108-88-3	Toluene	25	25.5	102	77-114
1330-20-7	Xylene (total)	75	71.5	95	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	79-122%
17060-07-0	1,2-Dichloroethane-D4	114%	75-121%
2037-26-5	Toluene-D8	114%	87-119%
460-00-4	4-Bromofluorobenzene	95%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T29684
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T29684-6MS	C0000920.D	1	05/28/09	RR	n/a	n/a	VC40
T29684-6MSD	C0000921.D	1	05/28/09	RR	n/a	n/a	VC40
T29684-6	C0000919.D	1	05/28/09	RR	n/a	n/a	VC40

The QC reported here applies to the following samples:

Method: SW846 8260B

T29684-1, T29684-2, T29684-3, T29684-4, T29684-5, T29684-6, T29684-7, T29684-8, T29684-9, T29684-10

CAS No.	Compound	T29684-6 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	28.1	112	26.4	106	6	76-118/16
100-41-4	Ethylbenzene	ND	25	24.9	100	24.1	96	3	75-112/12
108-88-3	Toluene	ND	25	25.3	101	24.6	98	3	77-114/12
1330-20-7	Xylene (total)	ND	75	72.3	96	70.9	95	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T29684-6	Limits
1868-53-7	Dibromofluoromethane	104%	102%	106%	79-122%
17060-07-0	1,2-Dichloroethane-D4	114%	113%	113%	75-121%
2037-26-5	Toluene-D8	113%	113%	112%	87-119%
460-00-4	4-Bromofluorobenzene	93%	95%	95%	80-133%



IT'S ALL IN THE CHEMISTRY

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: T29684
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP6482/GN16945	1.0	0.0	mg/l	1000	1010	100.6	92-107%

Associated Samples:

Batch GP6482: T29684-1, T29684-2, T29684-3, T29684-4, T29684-5, T29684-6, T29684-7, T29684-8, T29684-9

(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T29684
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP6482/GN16945	T29684-6	mg/l	308	313	1.6	0-5%

Associated Samples:

Batch GP6482: T29684-1, T29684-2, T29684-3, T29684-4, T29684-5, T29684-6, T29684-7, T29684-8, T29684-9
(*) Outside of QC limits

5.2



MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T29684
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP6482/GN16945	T29684-6	mg/l	308	100	393	84.4	81-119%

Associated Samples:

Batch GP6482: T29684-1, T29684-2, T29684-3, T29684-4, T29684-5, T29684-6, T29684-7, T29684-8, T29684-9

(') Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits