1RP - 1728

1st Semi Annual GW monitoring Report

YEAR(S): 2009



RECEIVED

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

2009 JUN 3 AM 11 34

June 2, 2009

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

RE: 1st Quarter 2009 Groundwater Monitoring Results DCP Midstream, LP J-4-2 Pipeline Release (1RP-1728) Unit C, Section 27, Township 19 South, Range 35 East Lea County, New Mexico

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, a copy of the 1st Quarter 2009 Groundwater Monitoring Results for the DCP J-4-2 Pipeline Release located in Lea County, New Mexico (Unit C, Section 27, Township 19 South, Range 35 East).

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

Sincerely

DCP Midstream, LP

Stephen Weathers, PG Principal Environmental Specialist

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



May 26, 2009

RECEIVED

2009 JUN 3 AM 11 34

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

Re: Summary of the First Quarter 2009 Groundwater Monitoring Results for the DCP J-4-2 Pipeline Release in Lea County New Mexico (1RP-1728) Unit C, Section 27 Township 19 South, Range 35 East

Dear Mr. Weathers:

This report summarizes the first quarter 2009 groundwater monitoring activities completed at the J-4-2 release location for DCP Midstream, LP. The site is located in the northeastern quarter of the northwestern quarter (Unit C) of Section 27, Township 19 South, Range 35 East approximately 3 miles south of the of intersection of US Highway 82 and State Highway 483 in Lea County New Mexico (Figure 1). The approximate coordinates are 32.647 degrees north and 103.447 degrees west.

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

GROUNDWATER SAMPLING

Groundwater sampling was completed on March 11, 2009. The depth to water and, if present, free phase hydrocarbons (FPH) were measured in each well prior to conducting the purging and sampling activities. The water-table elevations for the wells containing FPH were adjusted using the following formula:

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

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

Mr. Stephen Weathers May 26, 2009 Page 2

The calculated groundwater elevations for all monitoring episodes are summarized in Table 2. FPH was measured at thicknesses of 0.32 feet in MW-1 and 0.27feet in MW-2. The historic FPH thickness values are summarized in Table 3.

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

Unfiltered samples were collected upon stabilization using the dedicated bailers. All samples were placed in an ice-filled chest immediately upon collection and delivered to Accutest Laboratories using standard chain-of-custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) and chlorides.

RESULTS AND INTERPRETATIONS

The laboratory report is attached. The QA/QC evaluation included:

- The method blanks and blank spikes were all within their respective control limits.
- All of the individual surrogate spikes were within their control limits.
- The matrix spike and matrix spike duplicate results from MW-6 were within the control limits for all four constituents.
- There were no BTEX detects in the trip blanks or the primary and field duplicate samples from MW-3.
- The 43.4 relative percentage difference for chlorides from the primary and field duplicate samples from MW-3 is high but acceptable given the use of the data.

The above information indicates that the data is suitable for use as periodic groundwater monitoring data.

The results and interpretations presented below are based upon all of the data collected to date. The laboratory analyses for the first quarter 2009 sampling episode are summarized in Table 4. Tables 5, 6, 7 and 8 summarize all of the data collected during this project for benzene, toluene, ethylbenzene and xylenes. Table 9 summarizes the chloride data. The New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are reproduced at the top of each table. The constituents that exceed these standards are highlighted as bold text. Note that the chlorides standard is a secondary (non-health based) standard.

Mr. Stephen Weathers May 26, 2009 Page 3

Groundwater Flow

Figure 3 includes hydrographs for the corrected water-table elevations for all site wells. The water table increased in MW-1 and MW-4 and declined in the other wells.

The resulting first quarter 2009 calculated water table elevation contours as generated using the Surfer® program with the kriging option are shown on Figure 4. The water table exhibits a gradient that increases slightly in the southeast part of the study area. The groundwater flow direction has remained constant over the duration of the project.

Groundwater Chemistry

Examination of Table 4 shows that none of the BTEX constituents were detected in the wells that did not contain FPH. The benzene concentrations are plotted on Figure 5 along with the wells that contained FPH. Comparison of Figure 4 with Figure 5 demonstrates that any dissolved-phase BTEX constituents from MW-1 and MW-2 attenuate to concentrations that are below the method reporting limits before reaching MW-7 or MW-8.

It is also important to note that:

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

Examination of Table 6, the historical chlorides data, indicates that the chlorides concentrations in all wells exceed the NMWQCC secondary standard of 250 mg/l except for the fourth quarter 2008 value from MW-4. This chloride concentration rebounded to its historical range in the most recent sampling event.

A chloride isopleth map generated from the first quarter 2009 data using the Surfer® program is included as Figure 7. The chloride distribution indicates a source to the west and outside of the DCP release area.

Mr. Stephen Weathers May 26, 2009 Page 4

CONCLUSIONS AND RECOMMENDATIONS

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

- 1. Groundwater flow remains constant toward the southeast;
- 2. The presence of dissolved phase BTEX constituents is limited to the original release area as defined by MW-1 and MW-2;
- 3. The dissolved-phase hydrocarbon plume associated with the DCP J-4-2 pipeline release is either stable or contracting;
- 4. The first quarter 2009 data continue to confirm that the chlorides that are present in the groundwater did not originate from the DCP release.

AEC recommends continued quarterly groundwater monitoring to evaluate any effects produced by the open excavation. The next groundwater-monitoring event is scheduled for the second quarter of 2009.

Do not hesitate to contact me if you have any questions or comments on this letter.

Sincerely, AMERICAN ENVIRONMENTAL CONSULTING, LLC

Mechael H. Stewart

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



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

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

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

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Well	2/15/06	9/25/06	12/21/06	3/14/07	6/26/07	9/25/07	11/30/07
	_				_		
MW-1	3713.61	3712.60	3712.63	3712.29	3712.15	3711.86	3712.42
MW-2	3713.93	3713.48	3712.49	3712.75	3712.63	3712.34	3712.91
MW-3	3713.36	3712.57	3712.57	3712.55	3712.79	3711.50	371,2.09
MW-4		3712.80	3712.82	3712.78	3713.25	3712.98	3713.48
MW-6		3711.76	3712.00	3711.96	3711.87	3711.56	3711.92
MW-7		3711.03	3710.80	3710.73	3710.50	3709.87	3710.33
MW-8		3709.22	3708.95	3708.79	3708.54	3708.06	3708.33

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

Well	3/20/08	6/27/08	9/16/08	12/3/08	3/11/09
MW-1	3713.48	NM	NM	3711.94	3712.19
MW-2	3713.40	NM	NM	3712.14	3711.99
MW-3	3713.30	3713.09	3712.34	3712.25	3712.10
MW-4	3713.70	3713.13	3712.18	3712.10	3712.36
MW-6	3712.53	3712.20	3711.86	3711.70	3711.57
MW-7	3711.38	3710.95	3710.11	3710.00	3709.84
MW-8	3709.17	3708.78	3708.23	3708.13	3707.95

Units are feet

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Blank cells: wells not installed

NM: Not measured because of probe malfunction.

Date	MW-1	MW-2
02/15/06	0.00	0.57
09/25/06	0.00	0.15
12/21/06	0.09	0.13
03/14/07	0.07	0.10
06/26/07	0.09	0.00
09/25/07	0.09	0.03
11/30/07	0.00	0.00
03/20/08	0.00	$0.0\bar{0}$
06/27/08	0.04	0.01
09/16/08	0.08	0.02
12/03/08	0.21	0.17
03/11/09	0.32	0.27

Table 3 - Summary of Free Phase Hydrocarbon Thickness Values for MW-1 and MW-2

Units are feet

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Well	Benzene	Toluene	Ethyl benzene	Total Xylene	Chlorides
NMWQCC	0.01	0.75	0.75	0.62	250*
Standard	0.01	. 0.75	0.75	0.02	230
MW-3	< 0.002	< 0.002	< 0.002	<0.006	2240
MW-3 Duplicate	< 0.002	< 0.002	< 0.002	< 0.006	3480
MW-4	< 0.002	< 0.002	< 0.002	< 0.006	1390
MW-6	< 0.002	< 0.002	< 0.002	< 0.006	363
MW-7	< 0.002	< 0.002	< 0.002	< 0.006	944
MW-8	< 0.002	< 0.002	< 0.002	< 0.006	417

Table 4 - Summary of Fourth Quarter 2008 Groundwater Sampling Results

Notes:

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Units are mg/l, MW-1 and MW-2 not sampled because free phase hydrocarbons were present MW-5 was not installed because of drilling refusal NMWQCC: New Mexico Water Quality Control Commission

Values above the NMWQCC standard are highlighted as bold text.

* Secondary (aesthetics) rather than primary (health-based) standards.

Table 5 - Summary of Benzene Groundwater Data

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2/06	0	90/6	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08
0.139 0.0487 FPH	0487 FPH	FPH		FPH	FPH	0.011	0.107	0.037	FPH	FPH	FPH
0.026 0.0045 0.006 0.	0045 0.006 0.	0.006 0.	o.	188	FPH	FPH	FPH	FPH	FPH	FPH	FPH
<0.001 <0.002 <0.002 <0.).002 <0.002 <0.	<0.002 <0.	0.	002	0.003	<0.001	0.0011J	<0.002	<0.002	<0.002	<0.002
NI 0.0086 0.025 0.0	0086 0.025 0.0	0.025 0.0	0.0	04	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
NI <0.002 <0.002 <0.002).002 <0.002 <0.0	<0.002 <0.0	<0.0	02	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
NI <0.002 <0.002 <0.0).002 <0.002 <0.0	<0.002 <0.0	0.0)02	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
NI <0.002 <0.002 <0.).002 <0.002 <0.	<0.002 <0.	.0 0	002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
nits are mg/l,											

MW-5 was not installed Duplicates are averaged together J modifiers are not included in this table FPH: Free phase hydrocarbons present so well not sampled NI: Well not installed

Table 6 - Summary of Toluene Groundwater Data

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	FPH	FPH	<0.002	<0.002	<0.002	<0.002	<0.002	
	FPH	FPH	<0.002	<0.002	<0.002	<0.002	<0.002	
	FPH	FPH	<0.002	<0.002	<0.002	<0.002	<0.002	
	0.0155	FPH	<0.002	<0.002	<0.002	<0.002	<0.002	
	0.024	FPH	<0.002	<0.002	<0.002	<0.002	<0.002	
	0.003	FPH	<0.001	<0.001	<0.001	<0.001	<0.001	
	FPH	FPH	0.005	<0.001	<0.001	<0.001	<0.001	
	FPH	0.006	<0.002	6E-04	<0.002	<0.002	<0.002	
	FPH	0.003	<0.002	0.005	<0.002	<0.002	<0.002	-
	0.0058	<0.001	<0.002	0.00093J	<0.002	<0.002	<0.002	ng/l,
	0.326	0.038	<0.001	ĪZ	IN	IN	IN	Units are 1
	MW-1	MW-2	MW-3	MW-4	9-MM	MW-7	MW-8	Notes:
		MW-1 0.326 0.0058 FPH FPH 0.003 0.0155 FPH FPH FPH	MW-1 0.326 0.0058 FPH FPH 0.003 0.0155 FPH FPH	MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-2 0.038 <0.001	MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-2 0.038 c0.001 0.006 FPH FPH <t< td=""><td>MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-2 0.038 <0.001</td> 0.006 FPH FPH FPH FPH FPH FPH FPH MW-3 <0.001</t<>	MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-2 0.038 <0.001	MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-2 0.038 c0.001 0.005 FPH FPH <t< td=""><td>MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-2 0.038 <0.001</td> 0.006 FPH FPH</t<>	MW-1 0.326 0.0058 FPH FPH 0.003 0.024 0.0155 FPH FPH FPH MW-2 0.038 <0.001

MW-5 was not installed Duplicates are averaged together J modifiers are not included in this table FPH: Free phase hydrocarbons present so well not sampled NI: Well not installed

Table 7 - Summary of Ethylbenzene Groundwater Data

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Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08
MW-1	0.34	0.0284	FPH	FPH	FPH	0.004	0.04	0.014	FPH	FPH	FPH
MW-2	0.04	0.0027	0.003	0.026	FPH						
MW-3	<0.001	<0.002	<0.002	<0.002	0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	ĪZ	0.0092	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	ĪZ	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	ĪZ	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	Ī	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
Notes:	Units are	mg/l,									

MW-5 was not installed Duplicates are averaged together J modifiers are not included in this table FPH: Free phase hydrocarbons present so well not sampled NI: Well not installed

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Table 8 - Summary of Total Xylenes Groundwater Data

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Well	2/06	90/6	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08
MW-1	0.31	0.0694	FPH	FPH	FPH	0.098	0.39	0.215	FPH	FPH	FPH
MW-2	0.335	0.0471	0.0613	0.125	FPH	Hdf	FPH	FPH	FPH	FPH	FPH
MW-3	<0.002	<0.006	<0.006	<0.006	0.01	<0.001	<0.006	<0.006	0.007	<0.006	<0.006
MW-4	IN	0.0061	0.0065	0.003	0.003	<0.001	<0.006	<0.006	<0.006	0.0041J	<0.006
MW-6	ĪZ	<0.006	<0.006	<0.006	<0.001	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006
MW-7	IZ	<0.006	<0.006	<0.006	0.003	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006
MW-8	IN	<0.006	<0.006	<0.006	<0.001	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006
Notes:	Units are	mg/l,									

MW-5 was not installed Duplicates are averaged together J modifiers are not included in this table FPH: Free phase hydrocarbons present so well not sampled NI: Well not installed

Well	3/14/07	6/26/07	9/16/08	12/3/08	3/11/09
		10.000	1.0.00		0.0.60
<u>MW-3</u>	7,800	10,800	4,070	2,625	2,860
MW-4	1,300	1,380	1,440	70	1,390
MW-6	669	544	537	391	363
MW-7	1,230	1,150	1,180	1,050	944
MW-8	609	617	735	480	417

Table 9 – Summary of Chlorides Groundwater Data

Notes:

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Units are mg/l Duplicates are averaged together Values above the 250 NMWQCC secondary standard are highlighted as bold text

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Figure 5 - Fist Quarter 2009 Benzene Results DRAWN BY: MHS DATE: 4/09 J-4-2 Groundwater Monitoring N = -8**Midstream**. <0.002 MW-6 • MW-7 0.002 MW-2 MW-1 SCALE Units are mg/l FPH: free phase hydrocarbons MW-4+ NW−3





WELL SAMPLING DATA

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AND LABORATORY ANALYTICAL REPORT

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CLIENT:	DC	P Midstre	am	<u>،</u> ۱	NELL ID:	MW-1
SITE NAME:		J 4 2		-	DATE:	12/3/2008
PROJECT NO.				. S/	AMPLER:	M. Stewart/A. Taylor
PURGING METHOD:		Hand Bai	iled 🗌 Pu	mp If Pu	тр, Туре	:
SAMPLING METHOE) :	🗹 Disposab	le Bailer] Direct	from Disc	charge Hose 🗌 Other:
DESCRIBE EQUIPMI	ENT DECO	NTAMINATI	ON METH	OD BEFC	RE SAM	PLING THE WELL:
🗹 Gloves 🗌 Alcono	x 🛛 Distill	ed Water Ri	nse 🗆 C	Other:		
TOTAL DEPTH OF W DEPTH TO WATER: HEIGHT OF WATER WELL DIAMETER:	VELL: COLUMN: 4.0	43.05 27.88 15.17 Inch	Feet Feet Feet		29.7	_Minimum Gallons to purge 3 well volumes (Water Column Height x 1 96)
TIME VOLUME	TEMP.	COND.	рН	DO	Turb	PHYSICAL APPEARANCE AND
PURGED	_°C	<i>m</i> S/cm		mg\L		REMARKS
						
		-				
					ļ	
				ļ		
				ļ		
				ļ		-
0.0	: Total volu	me purged				
SAMPLE NO .:	MW-1		<u></u>			
ANALYSES:	BTEX (826	0)				
COMMENTS:	No sample	Free Phase	HCs			

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	CLIENT:	DC	P Midstre	am	. \		MW-2
S	ITE NAME:		<u>J 4 2</u>			DATE:	12/3/2008
PRO	OJECT NO.				. S/	AMPLER:	M. Stewart/A. Taylor
PURGIN	G METHOD	:	☑ Hand Bai	iled 🗌 Pu	mp If Pu	mp, Type:	
SAMPLIN	NG METHO	D:	🖸 Disposat	le Bailer] Direct	from Discl	narge Hose 🗌 Other:
DESCRIE	BE EQUIPM	ENT DECO	NTAMINATI	ON METH	DD BEFC	RE SAMP	PLING THE WELL:
⊡ Glove	es 🗋 Alconc	ox 🛛 Distill	ed Water Ri	nse 🗆 C	Other:	<u> </u>	
TOTAL D DEPTH T HEIGHT WELL DI	DEPTH OF V TO WATER: OF WATER AMETER:	VELL: COLUMN: 2.0	43.30 29.03 14.27 Inch	Feet Feet Feet		7.0	Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME	TEMP.	COND.	рН	DO	Turb	PHYSICAL APPEARANCE AND REMARKS
	FUNGED	V			III <u>g</u> \L		
					[
		·					
	1	······					
	0.0	: Total volu	me purged				
SAMF	PLE NO.:	MW-2					
ANA	LYSES:	BTEX (826	0)				
СОМ	MENTS:	No sample	Free Phase	HCs			

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	CLIENT:	DC	P Midstre	am		WELL ID:	MW-3
S	ITE NAME:		J 4 2			DATE:	12/3/2008
PROJECT NO				_ S/	AMPLER	M. Stewart/A. Taylor	
PURGING	G METHOD:	:	Hand Bai	led 🗌 Pu	ımp lf Pu	тр, Туре	:
SAMPLIN	IG METHOD) :	🖸 Disposab	le Bailer	Direct	from Disc	charge Hose 🗌 Other:
DESCRIE		ENT DECO	NTAMINATI	ON METH	OD BEFC	RE SAM	PLING THE WELL:
Glove	s 🗆 Alcono	x 🛛 Distill	ed Water Ri	nse 🗆 (Other:		
FOTAL D DEPTH T HEIGHT WELL DI	EPTH OF W O WATER: OF WATER AMETER:	VELL: COLUMN: 2.0	43.00 27.29 15.71 Inch	Feet Feet Feet	·	7.7	Minimum Gallons to purge 3 well volumes
	VOLUME	TEMP.	COND.		DO		(Water Column Height x 0.49)
TIME	PURGED	°C	<u>m S/cm</u>	pH	mg\L	Turb	REMARKS
	2.6	18.1	3.35	7.79			
	5.2	18.6	5.37	7.07			
	7.8	18.5	5.71	7.08			
	1		· · · · _ · · _ ·				
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·,	<u> </u>				╂───	 	
					<u> </u>		
	7.8	: Total volu	me purged			l	
SAMF	PLE NO.:	MW-3				-	
ANA	LYSES:	BTEX (826	0)				
COM	MENTS:	<u> </u>	······································				

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	CLIENT:	DC	P Midstre	am	<u> </u>	WELL ID:	MW-4
S	ITE NAME:		J 4 2			DATE:	12/3/2008
PRO	DJECT NO.		<u></u>	<u> </u>	SAMPLE		M. Stewart/A. Taylor
PURGIN	G METHOD:		☑ Hand Bai	led 🗆 Pu	imp_lf Pu	mp, Type	<u>.</u>
SAMPLIN	IG METHOD	D:	🖸 Disposab	le Bailer	Direct	from Disc	harge Hose 🗌 Other:
DESCRIE	BE EQUIPMI	ENT DECO	NTAMINATI	ON METH	OD BEFC	RE SAM	PLING THE WELL:
☑ Glove	s 🗹 Alcono	x 🗹 Distill	ed Water Ri	nse 🗆 (Other:		
TOTAL D DEPTH T HEIGHT WELL DI	EPTH OF W O WATER: OF WATER AMETER:	VELL: COLUMN: 2.0	38.12 27.88 10.24 Inch	Feet Feet Feet		5.0	Minimum Gallons to purge 3 well volumes (Water Column Height x 0 49)
TIME	VOLUME PURGED	ТЕМР. ° С	COND. <i>m</i> S/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	2.5	18.1	3.82	7.11			Begin Hand Bailing
	5.0	18.3	3.65	7.16			
	7.5	18.4	3.58	7.17			
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	<u> </u>						<u> </u>
	 75	· Total valu		l	<u> </u>		L
SAME		MW-4	ine pulged		·	L	
ΔΝΔ	LE NO	BTEX (826	 ())	. <u> </u>			
COM	MENTS	<u> </u>	<u>~/</u>			<u></u>	<u> </u>
00101			<u> </u>	<u></u>			

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	CLIENT:	DC	P Midstre	am		WELL ID:	MW-6
S	ITE NAME:		J 4 2		_	DATE:	12/3/2008
PRC	DJECT NO.				S/	AMPLER:	M. Stewart/A. Taylor
PURGING	G METHOD	:	Hand Bai	led 🗆 Pu	ımp lf Pu	mp, Type	:
SAMPLIN	IG METHO	D:	🗹 Disposab	le Bailer [Direct	from Disc	charge Hose 🗌 Other:
DESCRIE		ENT DECO	NTAMINATI	ON METH	OD BEFC	RE SAM	PLING THE WELL:
☑ Glove	s 🗌 Alcond	ox 🗌 Distill	ed Water Ri	nse 🗆 (Other:		
TOTAL D	EPTH OF V	VELL:	34.35	Feet			
DEPTH T	O WATER:		28.39	Feet			
	OF WATER	COLUMN:	5.96	Feet		2.9	_Minimum Gallons to
		2.0					(Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP. ° C	COND. <i>m</i> S/cm	pН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.7	18.4	1.91	7.24			
	3.4	18.9	1.83	7.21			
1230	5.1	18.8	1.82	7.21	<u> </u>		
					ļ		
· · · · - <u>-</u>							
	5.1	: Total volu	me purged				
SAMF	PLE NO.:	MW-6					
ANA	LYSES:	BTEX (826	0)				
COM	MENTS:						

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	CLIENT:	DC	P Midstre	am	- 1	WELL ID:	MW-7
S	ITE NAME:		J 4 2		_	DATE:	12/3/2008
PROJECT NO.				- S/	AMPLER:	M. Stewart/A. Taylor	
PURGING	G METHOD:	i	Hand Bai	iled 🗌 Pu	ımp lf Pu	mp, Type:	
SAMPLIN	IG METHOD):	🗹 Disposab	le Bailer] Direct	from Discł	narge Hose 🗌 Other:
DESCRIE	BE EQUIPMI	ENT DECO	NTAMINATI	ON METH	OD BEFC	RE SAMF	PLING THE WELL:
☑ Glove	s 🗆 Alcono	x 🛛 Distill	ed Water Ri	nse 🗆 (Other:		
OTAL D DEPTH T IEIGHT (EPTH OF W O WATER: OF WATER AMETER	/ELL: COLUMN: 2 0	39.45 30.89 8.56	Feet Feet Feet		4.2	Minimum Gallons to
		2.0					(Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP. ° C	COND. <i>m</i> S/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.5	18.1	3.4	7.12			Begin Hand Bailing
	3.0	18.8	3.51	_7.11	<u> </u>		
1210	4.5	18.7	3.54	7.15	ļ		
					<u> </u>		
	·			· · · · · · · · · · · · · · · · · · ·			·
			·				
		<u> </u>					<u> </u>
	4.5	: Total volu	me purged	<u> </u>			
SAMF	LE NO.:	MW-7					
ANA	LYSES:	BTEX (826	0)				
0014	MENTO						

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	CLIENT:	DC	P Midstrea	am		NELL ID:	MW-8
SI	TE NAME:		J 4 2		_	DATE:	12/3/2008
PRC	JECT NO.					AMPLER:	M. Stewart/A. Taylor
PURGING	METHOD:	I	🖸 Hand Bai	led 🗆 Pu	ımp If Pu	mp, Type:	
SAMPLIN):	🗹 Disposab	le Bailer [] Direct	from Disc	harge Hose 🗌 Other:
DESCRIB	E EQUIPM	ENT DECO	NTAMINATI	ON METH	OD BEFC	RE SAM	PLING THE WELL:
Glove:	s 🗆 Alcono	x 🛛 Distill	ed Water Ri	nse 🗆 (Other:		
TOTAL DI DEPTH T HEIGHT (WELL DIA	EPTH OF W O WATER: DF WATER METER:	/ELL: COLUMN: 2.0	38.32 29.37 8.95 Inch	Feet Feet Feet		4.4	Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME	TEMP. °C	COND. <i>m</i> S/cm	pН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.5	18.3	2.11	7.23			Began Hand Bailing
	3.0	18.0	2.04	7.20			
1150	4.5	18.4	2.03	7.20			
			·. ·				
		·			<u> </u>		
				·	_		
					<u> </u>		
<u>, </u>							
					<u> </u>	<u>}</u> -	
					+	 	
	4.5	· Total volu	me purged		<u> </u>		l
SAMP	LE NO.:	MW-8	nie pulgeu			.	······································
ANAL	YSES:	BTEX (826		<u> </u>			
COM	MENTS:				·····		
			<u> </u>				



04/14/09

Technical Report for

DCP Midstream, LLC

AECCOLI: DEFS J-4-2

Accutest Job Number: T26015

Sampling Date: 03/11/09

Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

Total number of pages in report: 29



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

Paul K Carrevaro

Paul Canevaro Laboratory Director



Client Service contact: William Reeves 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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Sample Summary

DCP Midstream, LLC

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والمراجب

Job No: T26015

AECCOLI: DEFS J-4-2

Sample Number	Collected Date	Time By	Received	Matr Code	ix Type	Client Sample ID
T26015-1	03/11/09	13:00 MS	03/13/09	AQ	Ground Water	MW-1
T26015-2	03/11/09	13:20 MS	03/13/09	AQ	Ground Water	
T26015-3	03/11/09	12:30 MS	03/13/09	AQ	Ground Water	MW-6
T26015-4	03/11/09	12:10 MS	03/13/09	AQ	Ground Water	MW-7
T26015-4D	03/11/09	12:10 MS	03/13/09	AQ	Water Dup/MSD	MW-7 MSD
T26015-4S	03/11/09	12:10 MS	03/13/09	AQ	Water Matrix Spike	MW-7 MS
T26015-5	03/11/09	11:50 MS	03/13/09	AQ	Ground Water	MW-8
T26015-6	03/11/09	00:00 MS	03/13/09	AQ	Ground Water	DUP
T26015-7	03/11/09	00:00 MS	03/13/09	AQ	Trip Blank Water	TRIP BLANK







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Sample Results		ţ
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Report of Analysis

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Report of Analysis

Client Sam Lab Samp Matrix: Method: Project:	aple ID: MW-1 le ID: T2601 AQ - C SW846 AECC	5-1 Ground Wa 5 8260B OLI: DEF	nter S J-4-2		Date Sa Date Ro Percent	mpled: eceived: Solids:	03/11/09 : 03/13/09 : n/a	
Run #1 Run #2	File ID F014788.D	DF 1	Analyzed 03/16/09	By RR	Prep Da n/a	te	Prep Batch n/a	Analytical Batch VF3321
Run #1 Run #2	Purge Volume 5.0 ml							
Purgeable	Aromatics							
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)		ND ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 0.00048 0.00045 0.0014	mg/l mg/l mg/l mg/l		
CAS No.	Surrogate Re	coveries	Run# 1	Run# 2	Limit	ts		

103%

106%

104%

108%

i

ND = Not detected	MDL - Method Detection Limit
RL = Reporting Limit	

E = Indicates value exceeds calibration range

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

1868-53-7

17060-07-0

2037-26-5

460-00-4

J = Indicates an estimated value

79-122%

75-121%

87-119%

80-133%

- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



Report of Analysis Client Sample ID: MW-1 Lab Sample ID: T26013 Date Sampled: 03/11/09 T26015-1 AQ - Ground Water Date Received: 03/13/09 Matrix: Percent Solids: n/a AECCOLI: DEFS J-4-2 Project: General Chemistry Method Result RL Units DF Analyzed By Analyte

2					
Chloride	1390 100	mg/l	100	03/23/09 08:00 KD	SM 4500 CL C



Report of Analysis

Client San Lab Sam Matrix: Method: Project:	ab Sample ID: T26015-2 [atrix: AQ - Ground Water [ethod: SW846 8260B roject: AECCOLI: DEFS J-4-2				Date Sampled: 03/11/09 Date Received: 03/13/09 Percent Solids: n/a					
Run #1 Run #2	File ID F014789.D	DF 1	Analyzed 03/16/09	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3321			
Run #1 Run #2	Purge Volume 5.0 ml	2								

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4	Benzene Toluene Ethylbenzene	ND ND ND	0.0020 0.0020 0.0020	0.00046 0.00048 0.00045	mg/l mg/l mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7	Dibromofluoromethane	104%		79-12	22%	
17060-07-0	1,2-Dichloroethane-D4	106%		75-12	21%	
2037-26-5	Toluene-D8	104%	1	87-1	19%	
460-00-4	4-Bromofluorobenzene	109%	1	80-13	33%	

ND = Not detected MDL - Method Detection Limit $RL \approx$ 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



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Report of Analysis

Client Sample ID: Lab Sample ID:	MW-3 T26015-2 AQ - Ground Water				Date Sampled: 03/11/09 Date Received: 03/13/09				
Project:	AECCOLI: DEFS J-4	Percent Solids: n/a							
General Chemistry	y								
Analyte	Result	RL	Units	DF	Analyzed	Ву	Method		
Chloride	2240	100	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C		





108-88-3

100-41-4

1330-20-7

CAS No.

1868-53-7

2037-26-5

460-00-4

17060-07-0

Toluene

Ethylbenzene

Xylene (total)

Toluene-D8

Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Report of Analysis

Client Sam Lab Samp Matrix: Method: Project:	nple ID: MW- le ID: T260 AQ - SW84 AECO	6 15-3 Ground Wa 16 8260B COLI: DEF	ater °S J-4-2		Date S Date R Percen	ampled: eceived it Solids	03/11/09 : 03/13/09 : n/a	
Run #1 Run #2	File ID F014784.D	DF 1	Analyzed 03/16/09	By RR	Prep Da n/a	ate	Prep Batch n/a	Analytical Batch VF3321
Run #1 Run #2	Purge Volum 5.0 ml	e						
Purgeable	Aromatics							
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2	Benzene		ND	0.0020	0.00046	i mg/l		

0.0020

0.0020

0.0060

Run# 2

0.00048 mg/l

0.00045 mg/l

0.0014 mg/l

Limits

79-122%

75-121%

87-119%

80-133%

ND

ND

ND

Run#1

104%

108%

103%

108%

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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



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Report of Analysis

Client Sample ID: Lab Sample ID: Matrix: Project:	MW-6 T26015-3 AQ - Ground Water AECCOLI: DEFS J-	4-2		Date Sampled: 03/11/09 Date Received: 03/13/09 Percent Solids: n/a				
General Chemistry	7							
Analyte	Result	RL	Units	DF	Analyzed	By	Method	
Chloride	363	10	mg/l	10	03/23/09 08:0	0 KD	SM 4500 CL C	





1868-53-7

2037-26-5

460-00-4

17060-07-0

Report of Analysis

Client Sam Lab Samp Matrix: Method: Project:	aple ID: MW-7 le ID: T26015- AQ - Gr SW846 AECCO	4 ound Wa 3260B LI: DEFS	ter 5 J-4-2		Date Sampled: Date Received Percent Solids	03/11/09 : 03/13/09 : n/a	
Run #1 Run #2	File ID F014785.D	DF 1	Analyzed 03/16/09	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3321
Run #1 Run #2	Purge Volume 5.0 ml						
Purgeable	Aromatics						
CAS No.	Compound		Result	RL	MDL Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)		ND ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 mg/l 0.00048 mg/l 0.00045 mg/l 0.0014 mg/l		
CAS No.	Surrogate Reco	overies	Run# 1	Run# 2	Limits		

104%

110%

103%

108%

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

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

J = Indicates an estimated value

79-122%

75-121%

87-119%

80-133%

- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound





Report of Analysis

Client Sample ID: Lab Sample ID: Matrix:	MW-7 T26015-4 AQ - Ground Water				Date Sampled: 03/11/09 Date Received: 03/13/09 Percent Solids: n/a				
Project:	AECCOLI: DEFS J-4	-2							
General Chemistry	/								
Analyte	Result	RL	Units	DF	Analyzed	By	Method		
Chloride	944	100	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C		

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Report of Analysis

Client Sam Lab Samp Matrix: Method: Project:	aple ID: MW- le ID: T260 AQ - SW8 AEC	8 15-5 Ground Wa 46 8260B COLI: DEF	ater °S J-4-2		Date Samp Date Receiv Percent Sol	led: 03/11/09 ved: 03/13/09 lids: n/a	
Run #1 Run #2	File ID F014790.D	DF 1	Analyzed 03/16/09	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3321
Run #1 Run #2	Purge Volum 5.0 ml	e					
Purgeable	Aromatics						
CAS No.	Compound		Result	RL	MDL Un	its 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	105%	·	79-122%
1868-53-7 17060-07-0	Dibromofluoromethane 1,2-Dichloroethane-D4	105% 111%		79-122% 75-121%
1868-53-7 17060-07-0 2037-26-5	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8	105% 111% 104%		79-122% 75-121% 87-119%

ND = Not detectedMDL - Method Detection LimitRL = Reporting LimitE = 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



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Chloride

Page 1 of 1 Client Sample ID: MW-8 Date Sampled: 03/11/09 Lab Sample ID: T26015-5 Date Received: 03/13/09 AQ - Ground Water Matrix: Percent Solids: n/a Project: AECCOLI: DEFS J-4-2 General Chemistry Analyte Result RL Units DF Analyzed By Method

mg/l

100

03/23/09 08:00 KD

SM 4500 CL C





100-41-4

1330-20-7

CAS No.

1868-53-7

2037-26-5

460-00-4

17060-07-0

Ethylbenzene

Xylene (total)

Toluene-D8

Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Report of Analysis Page 1 of 1 Client Sample ID: DUP Lab Sample ID: T26015-6 Date Sampled: 03/11/09 AQ - Ground Water Date Received: 03/13/09 Matrix: Percent Solids: n/a Method: SW846 8260B **AECCOLI: DEFS J-4-2** Project: File ID DF By Prep Date Prep Batch Analytical Batch Analyzed Run #1 F014791.D 03/16/09 RR n/a n/a VF3321 1 Run #2 Purge Volume 5.0 ml Run #1 Run #2 **Purgeable Aromatics** CAS No. Result RL MDL Units 0 Compound 71-43-2 Benzene ND 0.0020 0.00046 mg/l 108-88-3 Toluene ND 0.0020 0.00048 mg/l

0.0020

0.0060

Run# 2

0.00045 mg/l

0.0014 mg/l

Limits

79-122%

75-121%

87-119%

80-133%

ND

ND

Run#1

105%

110%

104%

111%

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

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





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Report of Analysis

Client Sample ID: Lab Sample ID: Matrix: Project:	DUP T26015-6 AQ - Ground Water AECCOLI: DEFS J-4-2				Date Sampled: 03/11/09 Date Received: 03/13/09 Percent Solids: n/a				
General Chemistry	7				nna (8) - Fara a				
Analyte	Result	RL	Units	DF	Analyzed	By	Method		
Chloride	3480	100	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C		





Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

CAS No.

1868-53-7

2037-26-5

460-00-4

17060-07-0

			Repor	rt of An	alysis			Page 1 of 1
Client Sam Lab Sampl Matrix: Method: Project:	ple ID: TRIP e ID: T2601 AQ - ' SW84 AECC	BLANK 5-7 Trip Blank 6 8260B COLI: DEF	Water 'S J-4-2	·	Date Sar Date Rec Percent	mpled: ceived: Solids:	03/11/09 03/13/09 n/a	
Run #1 Run #2	File ID F014783.D	DF 1	Analyzed 03/16/09	By RR	Prep Date n/a	e	Prep Batch n/a	Analytical Batch VF3321
Run #1 Run #2	Purge Volume 5.0 ml	;						
Purgeable	Aromatics							
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	1	ND ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 0.00048 0.00045 0.0014	mg/l mg/l mg/l mg/l		

Run# 2

Limits

79-122%

75-121%

87-119%

80-133%

Run#1

107%

109%

107%

112%

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

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







Misc.	Forms	i ana ina Ng	 		
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Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody

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Stewart A: Twylor A: C Client Purchase Order # Field ID / Point of Collection Date Time Match: Dotter # MW-1 3111 0.9 100 GW 1+3 1 1 MW-2 X GW 1+3 1 1 MW-3 J.00 GW 1+3 1 1 MW-4 X GW 1+3 1 1 MW-5 J.20 GW 1+3 1 1 MW-6 J.20 GW 1+3 1 1 MW-7 J.21.0 GW 1+3 1 1 MW-7 J.21.0 GW 1+3 1 1 DUP OOD GW 1+3 1 1 MW-7 MS/MSD J.2.0 GW 1+3 1 1 Trip Blank J.2.0 GW 1+3 1 1 1 Dup OoD GW 1+3</td> <td>Fax No. Fax No. TT18 Maria Client Purchase Order # Maria Client Purchase Order # Maria Maria Data Number of preserved bottles Par No. Field ID / Point of Collection Data Matrix Number of preserved bottles Par No. MW-1 Jiii 0.9 / OO GW 1+3 Jiii 1 X MW-2 X GW 1+3 Jiii 1 X MW-3 Jiii 0.9 GW 1+3 Jiii 1 X MW-4 X GW 1+3 Jiii 1 X MW-3 Jiii 0.9 GW 1+3 Jiii 1 X MW-4 X GW 1+3 Jiii 1 X MW-5 Jii 2.0 GW 1+3 Jii 1 X MW-7 MW-8 Jii 2.0 GW 1+3 Jii 1 X DUP QOO GW 1+3 Jiii 1 X MW-7 MS/MSD Jiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii</td> <td>Fax No. Fax No. Fax No. Fax No. Trills Clifert Purchase Order # MW-1 Clifert Purchase Order # Number of preserved bottles Field ID / Paint of Collection Number of preserved bottles MW-1 Oldection MW-2 Mather bottles MW-3 (OO GW 1+3 3 MW-4 Collection MW-3 (OO GW 1+3 3 I I X X MW-4 (OO GW 1+3 3 I I X X MW-5 I I X X MW-4 X X MW-5 I I X X MW-6 I I X X MW-7 I X X MW-8 I I X X MW-9 MW-7 I X X I I X X MW-7 MS/MS/D I X X I I X X X I I X X X</td> <td>Fax No. Phone No. Fax No. T718 Provide Collection M. Stewart (A. Ton Ast AEC Nummer Nummer Res No. Nummer Nummer Provide Collection Nummer Nummer of preserved bottless Nummer Nummer of preserved bottless Nummer of collection Nummer of collectinter</td> <td>Far No. Far No. Trill Balank Collection Far No. Matter for the state of the</td> <td>Par No. Prior 0 No. Prior 0 No. M. Ste Wart / A. Tan Jor AEC Collection Mater Collection Mater Collection Mater Collection Data Mater Collection Mater Collection</td> <td>Fax No. Fax No. Fax No. Fax No. Client Functoses Order # M.mer Market Social Number of preserved bottless Name M.W.1 Object Number of preserved bottless Name Name MW-1 Object Number of preserved bottless Name Name Name Name MW-1 Object Number of preserved bottless Name Name</td> <td>Par No. Par No. Par No. Mine M. A. Tom/or A. C. Mine M. Stewart /A. Tom/or A. C. Mine Field ID / Point of Collection Data MW-1 3111 D.Q. (CO) GW H73 1 1 X X MW-2 X GW H73 1 1 X X X MW-3 ////////////////////////////////////</td> <td>Fax No. Fax No. Tria Fax No. Collection Fax No. M. Stewart A. Toward Y. A. E.C. Collection Pore No. Field ID / Point of Collection Pore No. M. Stewart A. Toward Y. Collection M. Stewart A. Toward Y. Stewart A</td> <td>Fax No. Fax No. T718 Mare Client Purchase Order? M. Steward Purchase Order? Mint Steward Purchase Order? Field ID / Point of Collection Durp Other Purchase Order? MW-1 Steward Purchase Order? Number of preserved bottles Steward Purchase Order? MW-1 Steward Purchase Order? Number of preserved bottles Steward Purchase Order? MW-2 X Gen (1/2) Steward Purchase Order? Steward Purchase Order? MW-2 X Gen (1/2) Gen (1/2) Steward Purchase Order? Steward Purchase Order? MW-2 X Gen (1/2) Gen (1/2) Steward Purchase Order? Steward Purchase Order? MW-3 I/O Gen (1/2) Gen (1/2) Steward Purchase Order? Steward Purchase Order? Steward Purchase Order? MW-4 Gen (1/2) Gen (1/2) I/O Gen (1/2) I/O I/O I/O I/O MW-4 I/O Gen (1/2) I/O Gen (1/2) I/O I/O I/O I/O I/O I/O I/O <thi< td=""></thi<></td> | Fax No. Phona No. Fax No. 1718 M. Stewart A.T. Mart AEC Client Purchase Order # Field ID / Point of Collection Date Trins Mathe Collection Field ID / Point of Collection Date Trins Mathe Collection Field ID / Point of Collection MW-1 311009 000 GW 1+33 Image: Collection Field ID / Point of Collection MW-2 X GW 1+33 Image: Collection Field ID / Point of Collection MW-3 Job GW 1+33 Image: Collection Field ID / Point of Collection MW-4 X GW 1+33 Image: Collection Field ID / Point of Collection MW-3 Job GW 1+33 Image: Collection Field ID / Point of Collection MW-4 X GW 1+33 Image: Collection Image: Collection Image: Collection MW-5 J230 GW 1+33 Image: Collection Image: Collection Image: Collection MW-6 J230 GW 1+33 Image: Collection Image: Collection Image: Collection DUP | Fax No. Phone No. Fax No. 1718 M. Stewart A: Twylor A: Client Purchase Order # Mines M. Stewart A: Twylor A: C Client Purchase Order # Field ID / Point of Collection Date Time Match: Dotter # MW-1 3111 0.9 100 GW 1+3 1 1 MW-2 X GW 1+3 1 1 MW-3 J.00 GW 1+3 1 1 MW-4 X GW 1+3 1 1 MW-5 J.20 GW 1+3 1 1 MW-6 J.20 GW 1+3 1 1 MW-7 J.21.0 GW 1+3 1 1 MW-7 J.21.0 GW 1+3 1 1 DUP OOD GW 1+3 1 1 MW-7 MS/MSD J.2.0 GW 1+3 1 1 Trip Blank J.2.0 GW 1+3 1 1 1 Dup OoD GW 1+3 | Fax No. Fax No. TT18 Maria Client Purchase Order # Maria Client Purchase Order # Maria Maria Data Number of preserved bottles Par No. Field ID / Point of Collection Data Matrix Number of preserved bottles Par No. MW-1 Jiii 0.9 / OO GW 1+3 Jiii 1 X MW-2 X GW 1+3 Jiii 1 X MW-3 Jiii 0.9 GW 1+3 Jiii 1 X MW-4 X GW 1+3 Jiii 1 X MW-3 Jiii 0.9 GW 1+3 Jiii 1 X MW-4 X GW 1+3 Jiii 1 X MW-5 Jii 2.0 GW 1+3 Jii 1 X MW-7 MW-8 Jii 2.0 GW 1+3 Jii 1 X DUP QOO GW 1+3 Jiii 1 X MW-7 MS/MSD Jiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | Fax No. Fax No. Fax No. Fax No. Trills Clifert Purchase Order # MW-1 Clifert Purchase Order # Number of preserved bottles Field ID / Paint of Collection Number of preserved bottles MW-1 Oldection MW-2 Mather bottles MW-3 (OO GW 1+3 3 MW-4 Collection MW-3 (OO GW 1+3 3 I I X X MW-4 (OO GW 1+3 3 I I X X MW-5 I I X X MW-4 X X MW-5 I I X X MW-6 I I X X MW-7 I X X MW-8 I I X X MW-9 MW-7 I X X I I X X MW-7 MS/MS/D I X X I I X X X I I X X X | Fax No. Phone No. Fax No. T718 Provide Collection M. Stewart (A. Ton Ast AEC Nummer Nummer Res No. Nummer Nummer Provide Collection Nummer Nummer of preserved bottless Nummer Nummer of preserved bottless Nummer of collection Nummer of collectinter | Far No. Far No. Trill Balank Collection Far No. Matter for the state of the | Par No. Prior 0 No. Prior 0 No. M. Ste Wart / A. Tan Jor AEC Collection Mater Collection Mater Collection Mater Collection Data Mater Collection Mater Collection | Fax No. Fax No. Fax No. Fax No. Client Functoses Order # M.mer Market Social Number of preserved bottless Name M.W.1 Object Number of preserved bottless Name Name MW-1 Object Number of preserved bottless Name Name Name Name MW-1 Object Number of preserved bottless Name Name | Par No. Par No. Par No. Mine M. A. Tom/or A. C. Mine M. Stewart /A. Tom/or A. C. Mine Field ID / Point of Collection Data MW-1 3111 D.Q. (CO) GW H73 1 1 X X MW-2 X GW H73 1 1 X X X MW-3 //////////////////////////////////// | Fax No. Fax No. Tria Fax No. Collection Fax No. M. Stewart A. Toward Y. A. E.C. Collection Pore No. Field ID / Point of Collection Pore No. M. Stewart A. Toward Y. Collection M. Stewart A. Toward Y. Stewart A | Fax No. Fax No. T718 Mare Client Purchase Order? M. Steward Purchase Order? Mint Steward Purchase Order? Field ID / Point of Collection Durp Other Purchase Order? MW-1 Steward Purchase Order? Number of preserved bottles Steward Purchase Order? MW-1 Steward Purchase Order? Number of preserved bottles Steward Purchase Order? MW-2 X Gen (1/2) Steward Purchase Order? Steward Purchase Order? MW-2 X Gen (1/2) Gen (1/2) Steward Purchase Order? Steward Purchase Order? MW-2 X Gen (1/2) Gen (1/2) Steward Purchase Order? Steward Purchase Order? MW-3 I/O Gen (1/2) Gen (1/2) Steward Purchase Order? Steward Purchase Order? Steward Purchase Order? MW-4 Gen (1/2) Gen (1/2) I/O Gen (1/2) I/O I/O I/O I/O MW-4 I/O Gen (1/2) I/O Gen (1/2) I/O I/O I/O I/O I/O I/O I/O <thi< td=""></thi<> |

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T26015: Chain of Custody Page 1 of 3



ccutest Job Number: (Coo)	Client: DCP Milstream	_Date/Time Received: <u>3-13-9 915</u>
of Coolers Received: Ther	mometer #: $\underline{F} \underline{F} \underline{C} - \underline{C} \underline{C}$ Ter	mperature Adjustment Factor:
ooler Temps: #1: <u>0</u> #2:	#3: #4: #5:	#6: #7: #8:
lethod of Delivery: FEDEX UPS	Accutest Courier Greyhound	Delivery Other
irbill Numbers:		*a •
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 Cummary of Discrepancies:	SAMPLE INFORMATION Sample containers received broken way 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 revol 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 1ab-filtered metals?
ECHNICIAN SIGNATURE/DATE:	RIFIED BY: V44 h	<u>DNS</u> • • • • • • • •
Client Representative Notified:		Date:
By Accutest Representative:		Via: Phone Email

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T26015: Chain of Custody Page 2 of 3

)B #:		126015	· · ·		DATE/TIME	RECEIVED:	3-	13-9	930	•	
LIENT:	<u> </u>	Xp Milstream	<u>^</u>			INITIALS:	E1	Le		<u></u>	·]
OOLER#	SAMPLE ID	FIELD ID	DATE		MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	` P	'H
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	`					اجذبا	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	2	- 3	3-11-9	125	w	500~1	.1	+II (1) 2 3 4 5 6 7 8	<2	>12
		- 2			.,	4mi	2-4	VR	1 C3 3 4 5 6 7 8	<2	>12
	3	-6	3-119	1232	w.	503	1	+ FF		<2	> 12
		- (-				yami	2-y	VR	1 3 3. 4 5 6 7 8	<2	> 12
	ч	-7 M/mil	2-11-9.	1210	<u>ل</u> ر ا	500	1-2	1-LE	2 3 4 5 <u>8</u> 7 8	<2	> 12
-						40ml	3-8	in	1 3 4 5 6 7 8	<2	>12
		1	2-11-9	1150	. ~	500 ml		I-II	2 3 4 5 6 7 8	<2	>12
		-3				Vanil	24	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	6	D-P	3-11-9		in	523	1	1-II	D 2 3 4 5 6 7 8	<2	>12
			t			yam'	2-4	VR	1 03 3 4 5 6 7 6	<2	>12
	7	Try RIMK				42001	1-2	YR	1 (3 3 4 5 6 7 8	<2	>12
1.	esa	MN-1d	3-11-9	325	1,7.	Hant	1/3	VIL	$\frac{1}{5}$ $\frac{3}{6}$ $\frac{3}{7}$ $\frac{4}{8}$	<2	>12
<u> </u>	Sq	MW-2		30-		1	<u>}</u>	<u> </u>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<2	.>12
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T26015: Chain of Custody Page 3 of 3





GC/MS Volatiles

QC Data Summaries

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Includes the following where applicable:

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



Method Blank Summary

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Job Number:	T26015
Account:	DUKE DCP Midstream, LLC
Project:	AECCOLI: DEFS J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3321-MB	F014782.D	1	03/16/09	RR	n/a	n/a	VF3321
						•	

80-133%

The QC reported here applies to the following samples:

4-Bromofluorobenzene

460-00-4

Method: SW846 8260B

T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6, T26015-7

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		Limi	ts	
1868-53-7	Dibromofluoromethane	106%	79-12	22%	
17060-07-0) 1,2-Dichloroethane-D4	107%	75-12	21%	
2037-26-5	Toluene-D8	107%	87-11	19%	

113%

Page 1 of 1

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Blank Spike Summary

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Job Number:	T26015
Account:	DUKE DCP Midstream, LLC
Project:	AECCOLI: DEFS J-4-2
Project:	AECCOLI: DEFS J-4-2

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VF3321-BS	F014780.D	1	03/16/09	RR	n/a	n/a	VF3321

The QC reported here applies to the following samples:

Method: SW846 8260B

T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6, T26015-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.2	93	76-118
100-41-4	Ethylbenzene	25	22.1	88	75-112
108-88-3	Toluene	25	22.1	88	77-114
1330-20-7	Xylene (total)	75	66.9	89	75-111
CAS No.	Surrogate Recoveries	BSP	Li	mits	
1868-53-7	Dibromofluoromethane	100%	. 79	-122%	
17060-07-0	1,2-Dichloroethane-D4	104%	75	-121%	
2037-26-5	Toluene-D8	100%	87	-119%	
460-00-4	4-Bromofluorobenzene	98%	80	-133%	



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Matrix Spike/Matrix Spike Duplicate SummaryJob Number:T26015Account:DUKE DCP Midstream, LLC

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oject:	AECCOLI: DEFS J-4-2	

Sample File ID DF Analyzed By Prep Date Prep Batch Analytical Batch T26015-4MS F014786.D 1 03/16/09 RR n/a n/a VF3321 T26015-4MSD F014787.D 1 03/16/09 RR n/a n/a VF3321 T26015-4 F014785.D 1 03/16/09 RR n/a n/a VF3321
--

The QC reported here applies to the following samples:

Method: SW846 8260B

T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6, T26015-7

CAS No.	Compound	T26015-4 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	22.3	89	21.1	.84	6	76-118/16
100-41-4	Ethylbenzene	ND	25	21.4	86	20.4	,82	. 5	75-112/12
108-88-3	Toluene	NÐ	25	21.0	84	19.9	80	5	77-114/12
1330-20-7	Xylene (total)	ND	75	64.4	86	61.0	81	5	75-111/12
CAS No	Surrogate Recoveries	MS	MSD	Т2	6015-4	Limits			
0110 110.	Surregule receiveries	1110	1.102			211110			
1868-53-7	Dibromofluoromethane	105%	105%	10	4%	79-122	%		
17060-07-0	1,2-Dichloroethane-D4	113%	113%	11	0%	75-121	%		
2037-26-5	Toluene-D8	102%	103%	10	3%	87-119	%		
460-00-4	4-Bromofluorobenzene	99%	100%	10	8%	80-133	%		



Page 1 of 1

4.3



Section 5

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General	Chemistry	
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QC Data Summaries

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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: T26015 Account: DUKE - DCP Midstream, LLC Project: AECCOLI: DEFS J-4-2

Analyte	Batch ID	RL	MB Result Units	Spike Amount	BSP Result	BSP %Recov	QC Limits	
Chloride	GP6193/GN16323	1.0	0.0 mg/1	1000	981	98.1	92-107%	ġ
Associated Samples:							1	

Batch GP6193: T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6 (*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: T26015 Account: DUKE - DCP Midstream, LLC Project: AECCOLI: DEFS J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits	
Chloride	GP6193/GN16323	T26015-4	mg/l	944	944	0.0	0-5%	
Associated Samples: Batch GP6193: T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6 (*) Outside of QC limits								ଞ

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MATRIX SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

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Login Number: T26015 Account: DUKE - DCP Midstream, LLC Project: AECCOLI: DEFS J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits	
Chloride	GP6193/GN16323	T26015-4	mg/l	944	1000	1890	94.4	81-119%	S
Associated Samples: Batch GP6193: T26015- (*) Outside of QC lim. (N) Matrix Spike Rec.	1, T26015-2, T26015-3, T26 its outside of QC limits	015-4, T2601	5-5, T26015	5-6					জ

