2R - 799

Q2 2012 GWMR

11 / 09 / 2012

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

November 9, 2012

Mr. Glenn von Gonten
Oil Conservation Division
New Mexico Energy, Minerals
& Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Second Quarter 2012 Groundwater Monitoring Report
Burton Flats Compressor Station
Lots 4 and 5, Section 1, Township 21 South, Range 27 East
Eddy County, New Mexico
OCD Case No. 2R799

Dear Mr. von Gonten:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the Second Quarter 2012 Groundwater Monitoring Report for the DCP Burton Flats Booster Station located in Eddy County, New Mexico (Lots 4 and 5, Section 1, Township 21 South, Range 27 East).

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

Sincerely,

DCP Midstream, LP

Chandler E Cole
Senior Environmental Specialist

Enclosure

cc: Mr. Mike Bratcher - EMNRD
Mr. Jim Griswold - EMNRD
Mr. Jim Amos – BLM Carlsbad
Environmental Files

SECOND QUARTER 2012 GROUNDWATER MONITORING REPORT

BURTON FLATS BOOSTER STATION
EDDY COUNTY, NEW MEXICO

Prepared For:

Mr. Chandler Cole
DCP Midstream
370 17th Street, Suite 2500
Denver, Colorado 80202

Nicole Taylor
Project Geologist

John Riggi, P.G
Senior Project Geologist

Prepared by:
Conestoga-Rovers & Associates

14998 West 6th Avenue; Suite 800
Golden, Colorado
USA 80401

Office: (720) 974-0935
Fax: (720) 974-0936

web: http://www.CRAworld.com

NOVEMBER 6, 2012
REF. NO. 070537(6)
This report is printed on recycled paper.

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	GROUNDWATER MONITORING AND SAMPLING	1
3.0	ANALYTICAL RESULTS	2
4.0	CONCLUSIONS	2

LIST OF FIGURES
(Following Text)

FIGURE 1	VICINITY MAP
FIGURE 2	GROUNDWATER ELEVATION CONTOUR MAP
FIGURE 3	HYDROCARBON CONCENTRATIONS IN GROUNDWATER

LIST OF TABLES
(Following Text)

TABLE 1	CURRENT GROUNDWATER ANALYTICAL RESULTS
TABLE 2	HISTORICAL GROUNDWATER ANALYTICAL RESULTS

LIST OF APPENDICES

APPENDIX A	WELL SAMPLING FORMS
APPENDIX B	STANDARD OPERATING PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING
APPENDIX C	LABORATORY ANALYTICAL REPORT

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2012 Groundwater Monitoring Report* to DCP Midstream, LP (DCP) for the Burton Flats Booster Station in Eddy County, New Mexico. This report summarizes the June 2012 groundwater sampling event. Groundwater monitoring and sampling details, analytical results, and conclusions are presented below.

Site Background

The site is a booster station located in Eddy County, New Mexico. The property's legal description is Lots 4 and 5, Section 1, Township 21 South (T21S), Range 27 East (R27E) (Figure 1). Four groundwater monitoring wells MW-1 through MW-4 were installed in 2011.

Hydrogeology

Static groundwater depths ranged from 21.50 (MW-1) to 24.82 feet (ft) below ground surface (bgs) (MW-4) on June 20, 2012. Groundwater flows to the northwest with a gradient of 0.003 ft/ft (Figure 2).

2.0 GROUNDWATER MONITORING AND SAMPLING

CRA gauged groundwater monitoring wells MW-1 through MW-4 and collected groundwater samples from MW-1 through MW-3 on June 20, 2012. Light non-aqueous phase liquids (LNAPL) were measured in MW-4 during the sampling event. Each well cap was removed to allow groundwater levels to stabilize and equilibrate prior to gauging. All sampled groundwater monitoring wells were purged of approximately three well-casing volumes while temperature, pH, and conductivity were measured. Groundwater samples, including a duplicate sample, were collected using clean disposable bailers and decanted into clean containers supplied by the analytical laboratory. Groundwater samples were submitted under chain-of-custody to Accutest Laboratories of Texas. CRA well sampling forms are presented as Appendix A. CRA's standard operating procedures for groundwater monitoring and sampling are presented as Appendix B.

Purged Groundwater

Purged groundwater was transported to the DCP Linam Ranch Facility, where purged groundwater was disposed in the onsite sump.

3.0 ANALYTICAL RESULTS

Groundwater Analytical Methods

Groundwater samples collected from MW-1 through MW-3 were analyzed for:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by SW846 8021B
- Total petroleum hydrocarbons as gasoline (TPH GRO) by SW846 8015
- Total petroleum hydrocarbons as diesel (TPH DRO) by SW845 8015M and SW846 3510C
- Chlorides by Environmental Protection Agency 300/SW846 9056

Groundwater Sampling Results

No BTEX was detected above New Mexico Water Quality Control Commission (NMWQCC) cleanup levels in groundwater samples MW-2 and MW-3. Groundwater sample MW-1 contained 96.7 micrograms per liter (µg/l) benzene, 4,600 µg/l TPH GRO, and 27,400 µg/l TPH DRO. Sample MW-2 contained the highest chloride concentration (1,150,000 µg/l). BTEX, TPH GRO, TPH DRO, and chloride concentrations in groundwater are presented on Figure 3. Current groundwater analytical results are summarized in Table 1. Historical groundwater analytical results are summarized in Table 2. The laboratory analytical report is presented as Appendix C.

4.0 CONCLUSIONS

Benzene was detected above groundwater cleanup levels in monitoring well MW-1. Chloride has been detected above NMWQCC cleanup levels in groundwater samples MW-1 through MW-3. DCP will continue quarterly monitoring and sampling in 2012 to evaluate site groundwater conditions.

FIGURES

FIGURE 1: VICINITY MAP

FIGURE 2: GROUNDWATER ELEVATION CONTOUR MAP

FIGURE 3: HYROCARBON CONCENTRATIONS IN GROUNDWATER

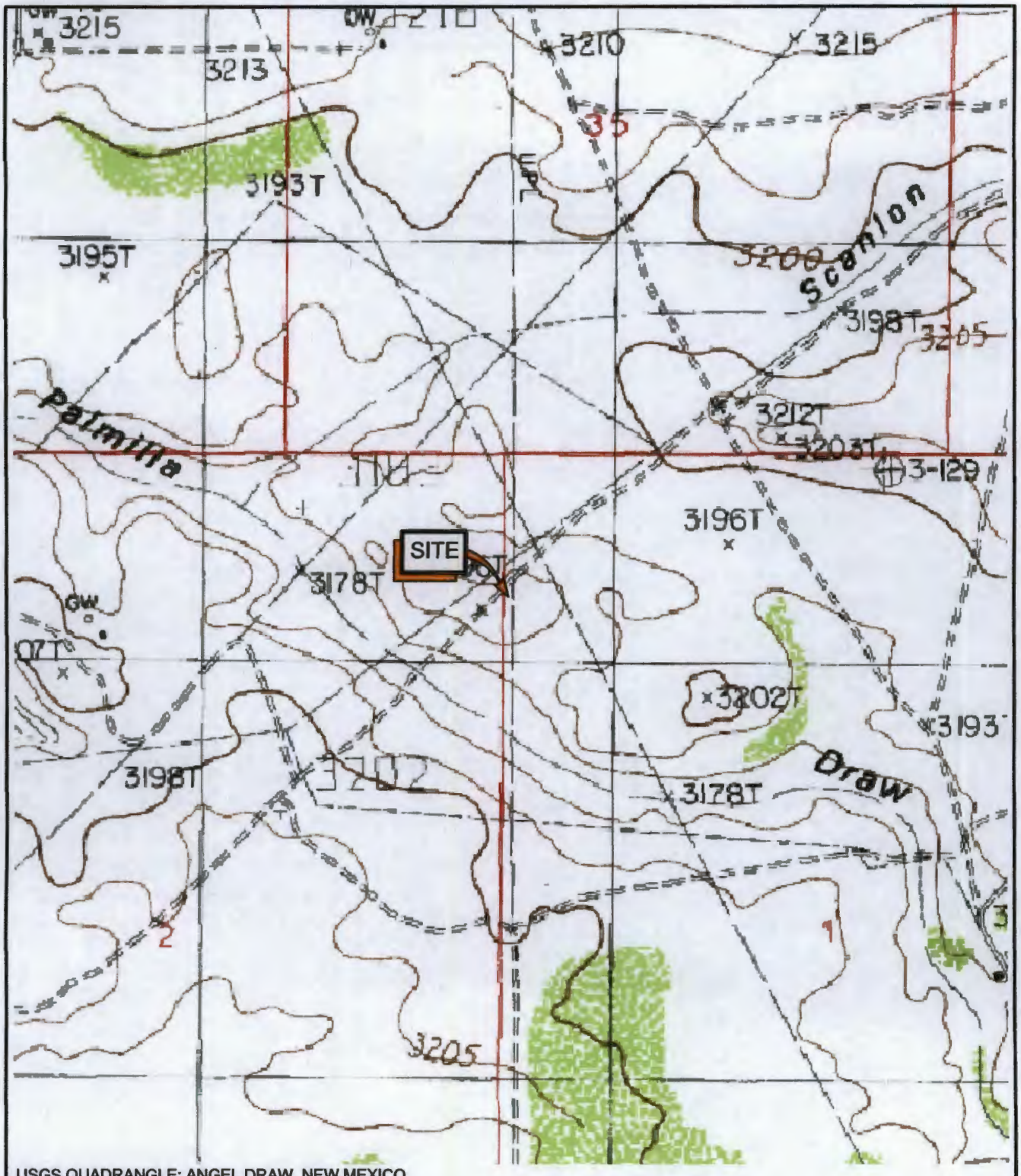

figure 1

VICINITY MAP
BURTON FLATS
EDDY COUNTY, NEW MEXICO
DCP Midstream

070537-10(001)GN-MD001 MAR 04/2010

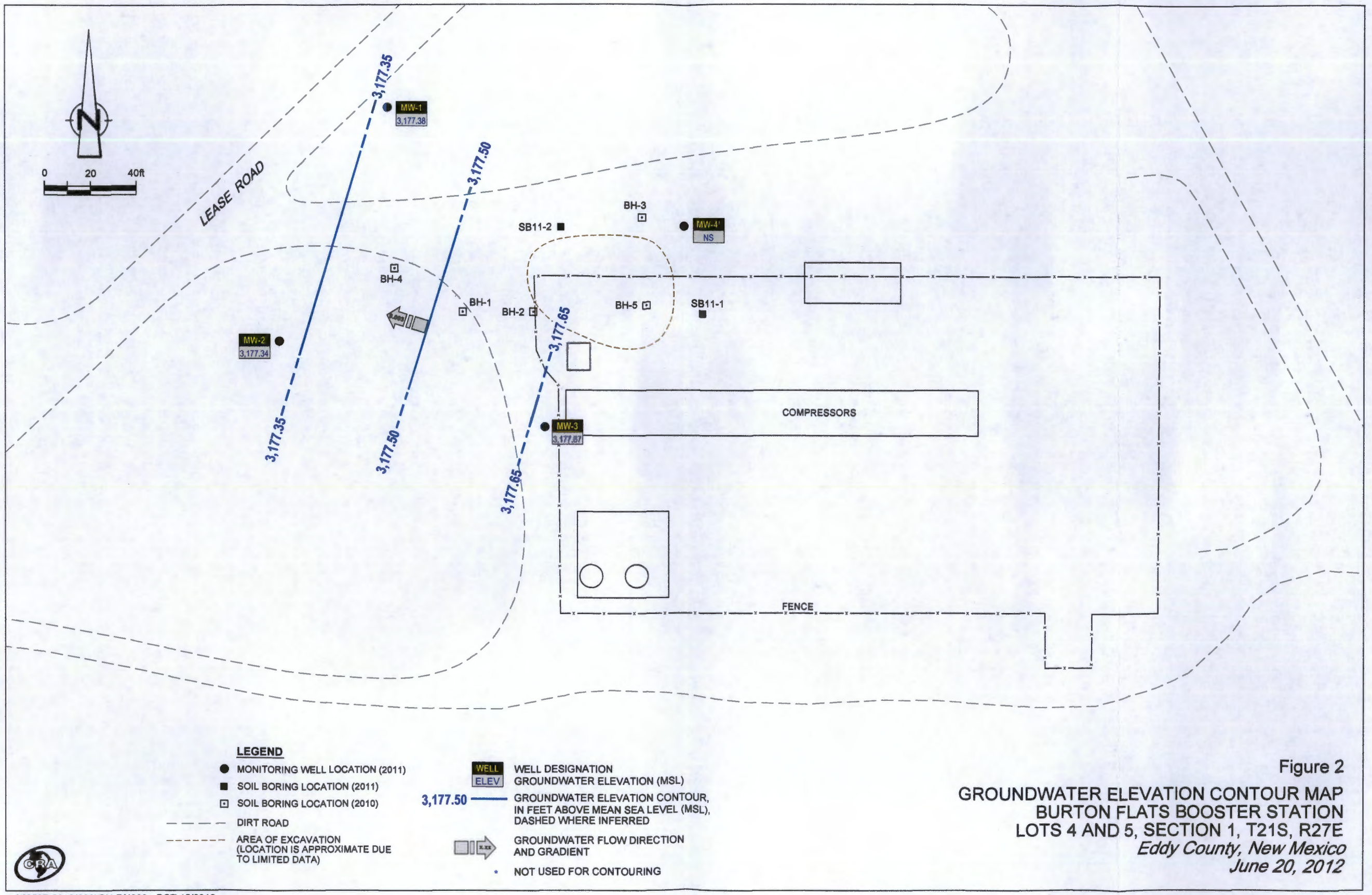

Figure 2

GROUNDWATER ELEVATION CONTOUR MAP
BURTON FLATS BOOSTER STATION
LOTS 4 AND 5, SECTION 1, T21S, R27E
Eddy County, New Mexico
June 20, 2012

070537-2012(006)GN-DN002 OCT 15/2012

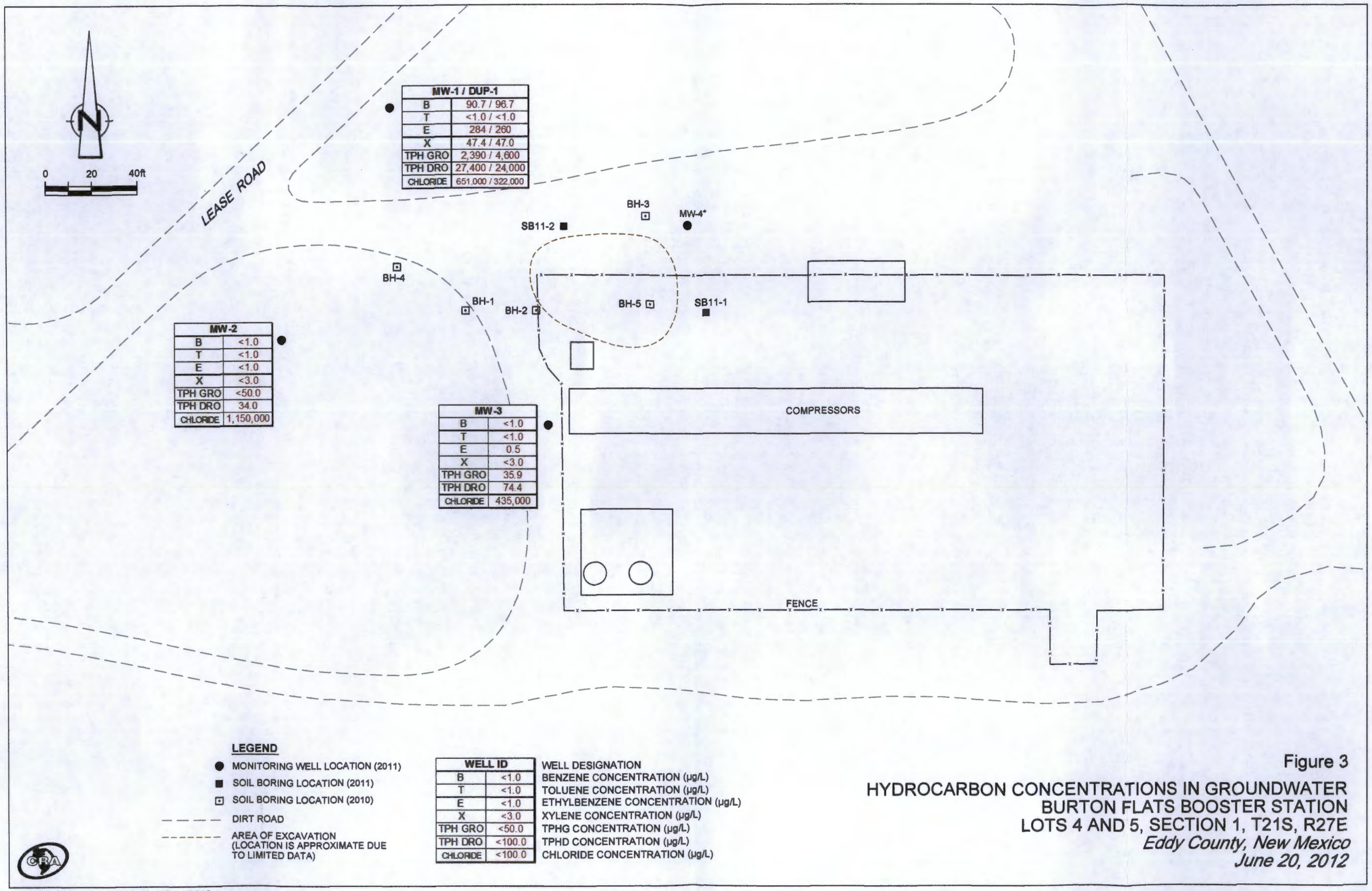

Figure 3

HYDROCARBON CONCENTRATIONS IN GROUNDWATER
BURTON FLATS BOOSTER STATION
LOTS 4 AND 5, SECTION 1, T21S, R27E
Eddy County, New Mexico
June 20, 2012

070537-2012(006)GN-DN003 NOV 1/2012

TABLES

TABLE 1: CURRENT GROUNDWATER ANALYTICAL RESULTS

TABLE 2: HISTORICAL GROUNDWATER ANALYTICAL RESULTS

Table 1. Current Groundwater Analytical Results - Burton Flats Booster Station, Eddy County, New Mexico

Well ID	Date	TOC (ft msl)	DTW (ft bgs)	GWE (ft msl)	Benzene	Toluene	Ethyl - benzene	Total Xylenes	TPH GRO	TPH DRO	Chloride
					← Concentrations in µg/l →						
NMWQCC Cleanup Levels					**10**	**750**	**750**	**620**	·	·	**250,000**
MW-1	6/20/2012	3,198.88	21.50	3177.38	**90.7/96.7**	<1.0/<1.0	284[a]/260[a]	47.4/47.0	2,390/4,600	27,400/24,000	**651,000/322,000**
MW-2	6/20/2012	3,200.00	22.66	3177.34	<1.0	<1.0	<1.0	<3.0	<50.0	34.0	**1,150,000**
MW-3	6/20/2012	3,200.85	23.18	3177.67	<1.0	<1.0	0.50	<3.0	35.9	74.4	**435,000**
MW-4	6/20/2012	--	24.82	--	LNAPL Present						

Notes and Abbreviations:

ID = Identification

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

BTEX = Benzene, toluene, ethylbenzene, and total xylenes by SW846 8021

TPH GRO =Total petroleum hydrocarbons as gasoline by SW846 8015

TPH DRO = Total petroleum hydrocarbons as diesel by SW845 8015M and SW846 3510C

Chloride = By Environmental Protection Agency 300/SW846 9056

ft msl = Feet above mean sea level

ft bgs = Feet below ground surface

µg/l = Micrograms per liter

NMWQCC = New Mexico Water Quality Control Commission

· = NMWQCC Cleanup Level not established

BOLD = Indicates concentration above the NMWQCC Cleanup Levels

x/y = Sample results/blind duplicate results

<x = Not detected above x µg/l

a = Result is from run #2

-- = Not measured

LNAPL = Light Non-Aqueous Phase Liquid

Table 2. Historical Groundwater Analytical Results - Burton Flats Booster Station, Eddy County, New Mexico

Well ID	Date	TOC (ft msl)	DTW (ft bgs)	LNAPL thickness (fbgs)	GWE (ft msl)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH GRO	TPH DRO	Chloride
						Concentrations in µg/l						
NMWQCC Cleanup Levels						**10**	**750**	**750**	**620**	·	·	**250,000**
MW-1	12/14/2011	--	21.17	--	--	**108 / 140**	3.4 / 2.6	200 / 178	111 / 99.9	3,890 / 2,880	44,900 / 37,300	**665,000 / 641,000**
MW-1	4/26/2012	3,198.88	21.24	--	3177.64	**153**	<1.0	229	7.3	3,010	16,900	**584,000**
MW-1	6/20/2012	3,198.88	21.50	--	3177.38	**90.7/96.7**	<1.0/<1.0	284[a]/260[a]	47.4/47.0	2,390/4,600	27,400/24,000	**651,000/322,000**
MW-2	12/14/2011	--	22.33	--	--	<1.0	<1.0	<1.0	<3.0	<50.0	106	**1,170,000**
MW-2	4/26/2012	3,200.00	22.39	--	3177.61	<1.0	<1.0	<1.0	<3.0	<50.0	<100.0	**1,040,000**
MW-2	6/20/2012	3,200.00	22.66	--	3177.34	<1.0	<1.0	<1.0	<3.0	<50.0	34.0	**1,150,000**
MW-3	12/14/2011	--	23.02	--	--	<1.0	<1.0	<1.0	<3.0	<50.0	139	**426,000**
MW-3	4/26/2012	3,200.85	23.08	--	3,177.77	<1.0/<1.0	<1.0/<1.0	<1.0/<1.0	<3.0/<3.0	8.0/<50.0	46.1/50.7	**396,000/406,000**
MW-3	6/20/2012	3,200.85	23.18	--	3,177.67	<1.0	<1.0	0.50	<3.0	35.9	74.4	**435,000**
MW-4	4/26/2012	--	24.00	0.99					LNAPL Present			
MW-4	6/20/2012	--	24.82	1.75	--				LNAPL Present			

Notes and Abbreviations:
ID = Identification
TOC = Top of casing
DTW = Depth to water
GWE = Groundwater elevation
BTEX = Benzene, toluene, ethylbenzene, and total xylenes by SW846 8021
TPH GRO =Total petroleum hydrocarbons as gasoline by SW846 8015
TPH DRO = Total petroleum hydrocarbons as diesel by SW845 8015M and SW846 3510C
Chloride = By Environmental Protection Agency 300/SW846 9056
ft msl = Feet above mean sea level
ft bgs = Feet below ground surface
µg/l = Micrograms per liter
NMWQCC = New Mexico Water Quality Control Commission
· = NMWQCC Cleanup Level not established
-- = Not measured
BOLD = Indicates concentration above the NMWQCC Cleanup Levels
x/y = Sample results/blind duplicate results
<x = Not detected above x µg/l
LNAPL = Light Non-Aqueous Phase Liquid

APPENDIX A

WELL SAMPLING FORMS

CRA

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Depth to Bottom	Product Thickness	Amount of Product Removed	Casing Diam.	Comments
MW-3		—	23.18	34.32	—	—	2"	
MW-2		—	22.66	32.93	—	—	2"	
MW-1		—	21.50	34.13	—	—	2"	DUP-1
MW-4		23.07	24.82	36.00	1.75	—	2"	

Project Name: BURTON FLATS

Project Number/Task: 070537

Technician: J. PRIMERA

Date: 6/20/12

CONESTOGA-ROVERS & ASSOCIATES

WELL SAMPLING FORM
DISPOSABLE BAILER SAMPLING

Site ID: BURTON FLATS	CRA Mgr: J. RIGGOL	Well ID: MW-1	
CRA Project No.: 070537	Date: 6/20/12	Field Staff: J.PRIMERA	
Street Address:	City, State: EDDY COUNTY, NM	Purging Device:	Teflon Disp. Bailer ○ POLY BAILER ●
		Sampling Method:	Teflon Disp. Bailer ○ POLY BAILER ●
Depth to Water: 21.50	Depth to Bottom: 34.13	Water Column Height: 12.63	
Volume/ft: 0.16	1 Casing Volume: 2.02	3 Casing Volumes: 6.060	
Well Diameter: 2"	Did Well Dewater?: NO	Total Gallons Purged: 6.25	
Start Purge Time: 1240	Stop Purge Time: 1248	Total Time: 8min	

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

NO PURGE APPROVED BY ADEC? ☐ **YES** ☐ **NO** *(If NO, please enter parameters below.)*

Time	Volume Purged (gallons)	Temp. (°C) ± 10%	DO ± 10%	pH ± 0.1	Cond. (mS) ± 3%	ORP (mv) ± 10	Comments
1246	5.75	22.5		7.44	8905		
1247	6.00	20.3		7.36	8943		
1248	6.25	19.9			8940		

**** A minimum of three parameters must be monitored and recorded.****
NOTE: If well is purged dry, DO NOT collect sample until it has recharged to approximately 80% of its pre-purge volume.

FIELD KIT RESULTS: Ferrous Iron _____ mg/L Nitrate _____ mg/L

Sample ID	Date	Time	Analytes / Analytical Method
MW-1	6/20/12	1250	○ DRO by AK102 ○ SVOCs by TCL8270 ○ PAHs by 8270 ○ RRO by AK103 ○ Lead by 6010 ○ PAHs by 8270SIM ○ Alkalinity by 2320B ○ Methane by 8015B ○ Nitrate/Nitrite by 353.2 ○ Sulfate by 300 ● DRO 8015 ◎ Chloride 9056 ○ GRO by AK101 ● GRO 8015 ● BTEX by 8021B ○ BTEX by 8260B ○ EDB by 8011 ○ HVOCs by 8260B ○ MtBE by 8260B ○ 1,2-DCA by 8260B
DUP-1	6/20/12	—	

Additional Comments:

CONESTOGA-ROVERS & ASSOCIATES

WELL SAMPLING FORM
DISPOSABLE BAILER SAMPLING

Site ID: BURTON FLATS	CRA Mgr: J. RICCOI	Well ID: MW-2	
CRA Project No.: 070537	Date: 10/20/12	Field Staff: J.PRIMERA	
Street Address:	City, State: EDDY COUNTY, NM	Purging Device:	Teflon Disp. Bailer ○ POLY BAILER ◉
		Sampling Method:	Teflon Disp. Bailer ○ POLY BAILER ◉
Depth to Water: 22.66	Depth to Bottom: 32.93	Water Column Height: 10.27	
Volume/ft: 0.16	1 Casing Volume: 1.64	3 Casing Volumes: 4.92	
Well Diameter: 2"	Did Well Dewater?: NO	Total Gallons Purged: 5.00	
Start Purge Time: 1237	Stop Purge Time: 1244	Total Time: 7 mins	

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

NO PURGE APPROVED BY ADEC? ☐ **YES** ☐ **NO** *(If NO, please enter parameters below.)*

Time	Volume Purged (gallons)	Temp. (°C) ± 10%	DO ± 10%	pH ± 0.1	Cond. (mS) ± 3%	ORP (mv) ± 10	Comments
1242	4.50	21.8		7.64	13.67		
1243	4.75	19.9		7.62	13.83		
1244	5.00	19.7		7.60	13.83		

**** A minimum of three parameters must be monitored and recorded.****
NOTE: If well is purged dry, DO NOT collect sample until it has recharged to approximately 80% of its pre-purge volume.

FIELD KIT RESULTS: Ferrous Iron _____ mg/L Nitrate _____ mg/L

Sample ID	Date	Time	Analytes / Analytical Method		
MW-	10/20/12	1245	○ DRO by AK102	○ SVOCs by TCL8270	○ PAHs by 8270
			○ RRO by AK103	○ Lead by 6010	○ PAHs by 8270SIM
			○ Alkalinity by 2320B	○ Methane by 8015B	○ Nitrate/Nitrite by 353.2
			○ Sulfate by 300	◉ DRO 8015	
			○ GRO by AK101	◉ GRO 8015	◉ Chloride 9056
			◉ BTEX by 8021B	○ BTEX by 8260B	○ EDB by 8011
			○ HVOCs by 8260B	○ MtBE by 8260B	○ 1,2-DCA by 8260B

Additional Comments:

CONESTOGA-ROVERS & ASSOCIATES

WELL SAMPLING FORM
DISPOSABLE BAILER SAMPLING

Site ID: BURTON FLATS	CRA Mgr: J. RIGGOL	Well ID: MW-3	
CRA Project No.: 070537	Date: 10/20/12	Field Staff: J.PRIMERA	
Street Address:	City, State: EDDY COUNTY, NM	Purging Device:	Teflon Disp. Bailer ○ Poly Bailer ●
		Sampling Method:	Teflon Disp. Bailer ○ Poly Bailer ●
Depth to Water: 23.18	Depth to Bottom: 34.32	Water Column Height: 11.14	
Volume/ft: 0.16	1 Casing Volume: 1.78	3 Casing Volumes: 5.34	
Well Diameter: 2"	Did Well Dewater?: NO	Total Gallons Purged: 5.50	
Start Purge Time: 1301	Stop Purge Time: 1310	Total Time: 9min	

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

NO PURGE APPROVED BY ADEC? ☐ **YES** ☐ **NO** *(If NO, please enter parameters below.)*

Time	Volume Purged (gallons)	Temp. (°C) ± 10%	DO ± 10%	pH ± 0.1	Cond. (mS) ± 3%	ORP (mv) ± 10	Comments
1308	5.00	22.3		7.34	9133		
1309	5.25	22.4		7.35	9184		
1310	5.50	25.1		7.30	90608		

**** A minimum of three parameters must be monitored and recorded. ****
NOTE: If well is purged dry, DO NOT collect sample until it has recharged to approximately 80% of its pre-purge volume.

FIELD KIT RESULTS: Ferrous Iron _____ mg/L Nitrate _____ mg/L

Sample ID	Date	Time	Analytes / Analytical Method		
MW-3	10/20/12	1311	○ DRO by AK102	○ SVOCs by TCL8270	○ PAHs by 8270
			○ RRO by AK103	○ Lead by 6010	○ PAHs by 8270SIM
			○ Alkalinity by 2320B	○ Methane by 8015B	○ Nitrate/Nitrite by 353.2
			○ Sulfate by 300	● DRO 8015	● Chloride 9056
			○ GRO by AK101	● GRO 8015	
			● BTEX by 8021B	○ BTEX by 8260B	○ EDB by 8011
			○ HVOCs by 8260B	○ MtBE by 8260B	○ 1,2-DCA by 8260B

Additional Comments:

APPENDIX B

STANDARD OPERATING PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

CONESTOGA-ROVERS
& ASSOCIATES

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Conestoga-Rovers & Associates' specific field procedures are summarized below.

Groundwater Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain separate phase hydrocarbons (SPH) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of SPH, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be monitored last. In wells with a history of SPH, the SPH level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of SPH or floating SPH globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no SPH is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or Wattera™) or down-hole pump (e.g. Grundfos™ or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until groundwater parameters of temperature, pH, and conductivity have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall be measured and recorded at the start of purging, once per well casing volume removed, and at the completion of purging. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) shall be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged and allowed to recharge to 80% of the pre-purging static water level, or if the well is slow to recharge, after waiting a minimum of 2 hours. Groundwater samples shall be collected using clean disposable bailers or

pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and disposable tubing or bailers shall be used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. One copy of the COC shall be kept in the QA/QC file and another copy shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Well Development

Wells shall be developed using a combination of groundwater surging and extraction. A surge block shall be used to swab the well and agitate the groundwater in order to dislodge any fine sediment from the sand pack. After approximately ten minutes of swabbing the well, groundwater shall be extracted from the well using a bailer, pump and/or reverse air-lifting through a pipe to remove the sediments from the well. Alternating surging and extraction shall continue until the sediment volume in the groundwater (i.e. turbidity) is negligible, which typically requires extraction of approximately ten well-casing volumes of groundwater. Preliminary well development usually is performed during well installation prior to placing the sanitary surface seal to ensure sand pack stabilization. Well development that is performed after surface seal installation, should occur 72 hours after seal installation to ensure that the cement has had adequate time to set.

Waste Handling and Disposal

Groundwater extracted during development and sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums. Each drum shall be labeled with the contents, date of generation, generator identification and consultant contact. If hydrocarbon concentrations in the purged groundwater are below ADEC cleanup levels or the site is in a remote area (pending ADEC approval) groundwater will be discharged to the ground surface, at least 100 feet from the nearest surface water body.

APPENDIX C

LABORATORY ANALYTICAL REPORT

Gulf Coast
ACCUTEST
LABORATORIES

07/27/12

Technical Report for

DCP Midstream, LLC

CRA: Burton Flats Eddy County Carlsbad, NM

Accutest Job Number: TC11357

Sampling Date: 06/20/12

Report to:

DCP Midstream, L.P.

ntaylor@craworld.com

ATTN: Mr. Chandler Cole

Total number of pages in report: **48**

ACCREDITED IN ACCORDANCE WITH nelac

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

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-12-7) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Summary of Hits **4**
Section 3: Sample Results 5
3.1: TC11357-1: MW-1 6
3.2: TC11357-2: MW-3 10
3.3: TC11357-3: MW-2 14
3.4: TC11357-4: DUP-1 18
3.5: TC11357-5: TRIP BLANK 22
Section 4: Misc. Forms **23**
4.1: Chain of Custody 24
Section 5: GC Volatiles - QC Data Summaries **29**
5.1: Method Blank Summary 30
5.2: Blank Spike Summary 34
5.3: Matrix Spike/Matrix Spike Duplicate Summary 38
Section 6: GC Semi-volatiles - QC Data Summaries **42**
6.1: Method Blank Summary 43
6.2: Blank Spike/Blank Spike Duplicate Summary 44
Section 7: General Chemistry - QC Data Summaries **45**
7.1: Method Blank and Spike Results Summary 46
7.2: Duplicate Results Summary 47
7.3: Matrix Spike Results Summary 48

Sample Summary

DCP Midstream, LLC

Job No: TC11357

CRA: Burton Flats Eddy County Carlsbad, NM

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
TC11357-1	06/20/12	12:50	06/26/12	AQ	Ground Water	MW-1
TC11357-2	06/20/12	13:11	06/26/12	AQ	Ground Water	MW-3
TC11357-3	06/20/12	12:45	06/26/12	AQ	Ground Water	MW-2
TC11357-4	06/20/12	00:00	06/26/12	AQ	Ground Water	DUP-1
TC11357-5	06/20/12	00:00	06/26/12	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: TC11357
Account: DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM
Collected: 06/20/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TC11357-1	**MW-1**					
TPH-GRO (C6-C10) [a]		2.39	0.25	0.030	mg/l	SW846 8015
Benzene		0.0907	0.0010	0.00036	mg/l	SW846 8021B
Ethylbenzene		0.284	0.050	0.013	mg/l	SW846 8021B
Xylenes (total)		0.0474	0.0030	0.00093	mg/l	SW846 8021B
TPH (C10-C28)		27.4	2.0	0.48	mg/l	SW846 8015 M
Chloride		651	25	13	mg/l	EPA 300/SW846 9056
TC11357-2	**MW-3**					
TPH-GRO (C6-C10)		0.0359 J	0.050	0.0060	mg/l	SW846 8015
Ethylbenzene		0.00050 J	0.0010	0.00025	mg/l	SW846 8021B
TPH (C10-C28)		0.0744 J	0.10	0.024	mg/l	SW846 8015 M
Chloride		435	25	13	mg/l	EPA 300/SW846 9056
TC11357-3	**MW-2**					
TPH (C10-C28)		0.0340 J	0.10	0.024	mg/l	SW846 8015 M
Chloride		1150	50	25	mg/l	EPA 300/SW846 9056
TC11357-4	**DUP-1**					
TPH-GRO (C6-C10) [a]		4.60	0.50	0.060	mg/l	SW846 8015
Benzene		0.0967	0.0010	0.00036	mg/l	SW846 8021B
Ethylbenzene		0.260	0.050	0.013	mg/l	SW846 8021B
Xylenes (total)		0.0470	0.0030	0.00093	mg/l	SW846 8021B
TPH (C10-C28)		24.0	2.0	0.48	mg/l	SW846 8015 M
Chloride		322	25	13	mg/l	EPA 300/SW846 9056
TC11357-5	**TRIP BLANK**					
Ethylbenzene		0.00055 J	0.0010	0.00025	mg/l	SW846 8021B

(a) Sample dilution required. Analyzed beyond hold time.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	TC11357-1	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB0013346.D	5	07/05/12	FI	n/a	n/a	GBB689
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.39	0.25	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		42-123%
98-08-8	aaa-Trifluorotoluene	99%		51-130%

(a) Sample dilution required. Analyzed beyond hold time.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	TC11357-1	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT006564.D	1	07/03/12	CC	n/a	n/a	GTT286
Run #2	TT006535.D	50	07/02/12	CC	n/a	n/a	GTT284

	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	0.0907	0.0010	0.00036	mg/l	
108-88-3	Toluene	ND	0.0010	0.00028	mg/l	
100-41-4	Ethylbenzene	0.284 [a]	0.050	0.013	mg/l	
1330-20-7	Xylenes (total)	0.0474	0.0030	0.00093	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	274% [b]	101%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	96%	73-139%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	TC11357-1	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8015 M SW846 3510C	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC226586.D	20	06/29/12	RM	06/27/12	OP24016	GCC1349
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	27.4	2.0	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		25-112%

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

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	TC11357-1	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
		Percent Solids:	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	651	25	mg/l	50	06/28/12 16:39	RA	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	TC11357-2	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB0013321.D	1	07/03/12	FI	n/a	n/a	GBB687
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0359	0.050	0.0060	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		42-123%
98-08-8	aaa-Trifluorotoluene	98%		51-130%

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	TC11357-2	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT006565.D	1	07/03/12	CC	n/a	n/a	GTT286
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00036	mg/l	
108-88-3	Toluene	ND	0.0010	0.00028	mg/l	
100-41-4	Ethylbenzene	0.00050	0.0010	0.00025	mg/l	J
1330-20-7	Xylenes (total)	ND	0.0030	0.00093	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		58-125%
98-08-8	aaa-Trifluorotoluene	93%		73-139%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	TC11357-2	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8015 M SW846 3510C	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC226587.D	1	06/29/12	RM	06/27/12	OP24016	GCC1349
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.0744	0.10	0.024	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		25-112%

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	TC11357-2	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
		Percent Solids:	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	435	25	mg/l	50	06/28/12 16:56	RA	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	TC11357-3	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB0013324.D	1	07/03/12	FI	n/a	n/a	GBB687
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.0060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		42-123%
98-08-8	aaa-Trifluorotoluene	99%		51-130%

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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	TC11357-3	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT006568.D	1	07/03/12	CC	n/a	n/a	GTT286
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00036	mg/l	
108-88-3	Toluene	ND	0.0010	0.00028	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00025	mg/l	
1330-20-7	Xylenes (total)	ND	0.0030	0.00093	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		58-125%
98-08-8	aaa-Trifluorotoluene	94%		73-139%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	TC11357-3	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8015 M SW846 3510C	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC226588.D	1	06/29/12	RM	06/27/12	OP24016	GCC1349
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.0340	0.10	0.024	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		25-112%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	TC11357-3	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
		Percent Solids:	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1150	50	mg/l	100	06/28/12 17:47	RA	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	TC11357-4	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB0013347.D	10	07/05/12	FI	n/a	n/a	GBB689
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	4.60	0.50	0.060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		42-123%
98-08-8	aaa-Trifluorotoluene	101%		51-130%

(a) Sample dilution required. Analyzed beyond hold time.

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-1		
Lab Sample ID:	TC11357-4	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT006566.D	1	07/03/12	CC	n/a	n/a	GTT286
Run #2	TT006541.D	50	07/02/12	CC	n/a	n/a	GTT284

	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	0.0967	0.0010	0.00036	mg/l	
108-88-3	Toluene	ND	0.0010	0.00028	mg/l	
100-41-4	Ethylbenzene	0.260 [a]	0.050	0.013	mg/l	
1330-20-7	Xylenes (total)	0.0470	0.0030	0.00093	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	305% [b]	101%	58-125%
98-08-8	aaa-Trifluorotoluene	95%	95%	73-139%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

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

Accutest Laboratories

Report of Analysis

Client Sample ID: DUP-1
Lab Sample ID: TC11357-4
Matrix: AQ - Ground Water
Method: SW846 8015 M SW846 3510C
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Date Sampled: 06/20/12
Date Received: 06/26/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC226589.D	20	06/29/12	RM	06/27/12	OP24016	GCC1349
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	24.0	2.0	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		25-112%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	TC11357-4	**Date Sampled:**	06/20/12
Matrix:	AQ - Ground Water	**Date Received:**	06/26/12
		Percent Solids:	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	322	25	mg/l	50	06/28/12 18:04	RA	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	TC11357-5	**Date Sampled:**	06/20/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/26/12
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CRA: Burton Flats Eddy County Carlsbad, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT006567.D	1	07/03/12	CC	n/a	n/a	GTT286
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00036	mg/l	
108-88-3	Toluene	ND	0.0010	0.00028	mg/l	
100-41-4	Ethylbenzene	0.00055	0.0010	0.00025	mg/l	J
1330-20-7	Xylenes (total)	ND	0.0030	0.00093	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		58-125%
98-08-8	aaa-Trifluorotoluene	95%		73-139%

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page ___ of

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # TC11357

Client / Reporting Information

Company Name	Project Name / No.	Bill to	Invoice Attn.
Conestoga Rovers and Associates	DCP Midstream-~~Hobbs GN00/390560601~~ Burton Flats	DCP Midstream-~~Hobbs~~ Burton Flats	Steve Weathers

Project Contact	E-Mail	Address	Address
~~James Omoleas~~ JUSTIN J. PRIMERA		2135 South Loop 250 W	

City	State	Zip	City	State	Zip
Midland	Texas	79703			

Phone No.	Fax No.	Phone No.	Fax No.
432 686-0086			

Samplers's Name	Client Purchase Order #
J. PRIMERA	

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	ZnAc	H2SO4	ENCORE	NaHSO4	MEOH	NONE	8260BTEX	GRO-8015	DRO-8015	Cl-300.1	LAB USE ONLY
1	MW-1	6-20-12	1250	GW	8	6							2	X	X	X	X	
2	MW-3	6-20-12	1311	GW	8	6							2	X	X	X	X	
3	MW-5	6-20-12	1245	GW	8	6							2	X	X	X	X	
4	DUP-1	6-20-12	—	GW	8	6							2	X	X	X	X	
				~~GW~~	~~3~~	~~3~~												
				~~GW~~	~~3~~	~~3~~												
				~~GW~~	3	3												
				GW	3	3												
				~~GW~~	~~3~~	~~3~~												

Turnaround Time (Business days)

- [ ] 10 Day *STANDARD*
- [ ] 7 Day
- [ ] 4 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [X] Other — 10 calendar day

Approved By:/ Date:

Real time analytical data available via Lablink

Data Deliverable Information

- [ ] Commercial "A"
- [X] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Data Package
- [ ] TRRP-13
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results & Standard QC

Comments / Remarks

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		6-25-12 1100	FX	2 FX	6-26-12 8:20	2
3			3	4		4
5			5	Custody Seal #	Preserved where applicable ☐	On Ice X Cooler Temp. 0.5

TC11357: Chain of Custody
Page 1 of 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC11357 **Client:** CONESTOGA ROVERS **Project:** DCP MIDSTREAM-BURTON FLATS

Date / Time Received: 6/26/2012 **Delivery Method:** **Airbill #'s:** 798551626124

No. Coolers: 1 **Therm ID:** IRGUN5; **Temp Adjustment Factor:** -0.4;

Cooler Temps (Initial/Adjusted): #1: (0.9/0.5);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:		

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☑	☐	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☐	☑

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments 1) RECEIVED TB'S NOT LISTED ON COC.

2) ALL N/P CONTAINERS LIST "HCL" AS PRESERVATIVE ON LABEL.

3) RECEIVED ONLY ONE LITER AMBER GLASS FOR "DRO-8015" ANALYSIS PER SAMPLE, LIMITED VOLUME.

TC11357: Chain of Custody
Page 2 of 5

ACCUTEST LABORATORIES

Problem Resolution

Accutest Job Number: TC11357

CSR: Georgia Jones **Response Date:** 6/26/2012

Response: Trip blank analyzed per project requirements.

4.1 4

TC11357: Chain of Custody
Page 3 of 5

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: TC11357 **Date / Time Received:** 6/26/2012 8:20:00 AM **Initials:** CH

Client: CONESTOGA ROVERS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TC11357-1	LAG	1	4X	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-1	250ml	2	3J	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-1	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-1	40ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-1	40ml	5	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-1	40ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-1	40ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-1	40ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	LAG	1	4X	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	250ml	2	3J	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	40ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	40ml	5	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	40ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	40ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-2	40ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	LAG	1	4X	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	250ml	2	3J	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	40ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	40ml	5	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	40ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	40ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-3	40ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5

TC11357: Chain of Custody
Page 4 of 5

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: TC11357 **Date / Time Received:** 6/26/2012 8:20:00 AM **Initials:** CH

Client: CONESTOGA ROVERS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TC11357-4	LAG	1	4X	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-4	250ml	2	3J	N/P	Note #2 - Preservative check not applicable.	IRGUN5	0.9	-0.4	0.5
1	TC11357-4	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-4	40ml	4	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-4	40ml	5	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-4	40ml	6	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-4	40ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-4	40ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-5	40ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5
1	TC11357-5	40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	0.9	-0.4	0.5

TC11357: Chain of Custody
Page 5 of 5

Gulf Coast ACCUTEST LABORATORIES

GC 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: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB687-MB	BB0013319.D	1	07/03/12	FI	n/a	n/a	GBB687

The QC reported here applies to the following samples: **Method:** SW846 8015

TC11357-2, TC11357-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.0060	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	88%	42-123%
98-08-8	aaa-Trifluorotoluene	97%	51-130%

Method Blank Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB689-MB	BB0013345.D	1	07/05/12	FI	n/a	n/a	GBB689

The QC reported here applies to the following samples: **Method:** SW846 8015

TC11357-1, TC11357-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.0060	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	87%	42-123%
98-08-8	aaa-Trifluorotoluene	96%	51-130%

Method Blank Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTT284-MB	TT006534.D	1	07/02/12	CC	n/a	n/a	GTT284

The QC reported here applies to the following samples: **Method:** SW846 8021B

TC11357-1, TC11357-4

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	58-125%
98-08-8	aaa-Trifluorotoluene	95%	73-139%

Method Blank Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTT286-MB	TT006560.D	1	07/03/12	CC	n/a	n/a	GTT286

The QC reported here applies to the following samples: **Method:** SW846 8021B

TC11357-1, TC11357-2, TC11357-3, TC11357-4, TC11357-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.36	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	0.93	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

Blank Spike Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB687-BS	BB0013317.D	1	07/03/12	FI	n/a	n/a	GBB687

The QC reported here applies to the following samples: **Method:** SW846 8015

TC11357-2, TC11357-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.378	95	81-113

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	91%	42-123%
98-08-8	aaa-Trifluorotoluene	101%	51-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB689-BS	BB0013343.DI		07/05/12	FI	n/a	n/a	GBB689

The QC reported here applies to the following samples: **Method:** SW846 8015

TC11357-1, TC11357-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.384	96	81-113

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	42-123%
98-08-8	aaa-Trifluorotoluene	101%	51-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTT284-BS	TT006533.D	1	07/02/12	CC	n/a	n/a	GTT284

The QC reported here applies to the following samples: **Method:** SW846 8021B

TC11357-1, TC11357-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	20	20.0	100	81-116

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTT286-BS	TT006559.D	1	07/03/12	CC	n/a	n/a	GTT286

The QC reported here applies to the following samples: **Method:** SW846 8021B

TC11357-1, TC11357-2, TC11357-3, TC11357-4, TC11357-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.2	96	86-121
100-41-4	Ethylbenzene	20	18.7	94	81-116
108-88-3	Toluene	20	19.0	95	87-117
1330-20-7	Xylenes (total)	60	56.1	94	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	58-125%
98-08-8	aaa-Trifluorotoluene	95%	73-139%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC11357-2MS	BB0013322.D	1	07/03/12	FI	n/a	n/a	GBB687
TC11357-2MSD	BB0013323.D	1	07/03/12	FI	n/a	n/a	GBB687
TC11357-2	BB0013321.D	1	07/03/12	FI	n/a	n/a	GBB687

The QC reported here applies to the following samples: **Method:** SW846 8015

TC11357-2, TC11357-3

CAS No.	Compound	TC11357-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.0359	J	0.4	0.413	94	0.389	88	6	81-113/31

CAS No.	Surrogate Recoveries	MS	MSD	TC11357-2	Limits
460-00-4	4-Bromofluorobenzene	92%	91%	89%	42-123%
98-08-8	aaa-Trifluorotoluene	112%	109%	98%	51-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC11357-4MS	BB0013348.D	10	07/05/12	FI	n/a	n/a	GBB689
TC11357-4MSD	BB0013349.D	10	07/05/12	FI	n/a	n/a	GBB689
TC11357-4 [a]	BB0013347.D	10	07/05/12	FI	n/a	n/a	GBB689

The QC reported here applies to the following samples: **Method:** SW846 8015

TC11357-1, TC11357-4

CAS No.	Compound	TC11357-4 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	4.60		4	5.33	18*	5.18	15*	3	81-113/31

CAS No.	Surrogate Recoveries	MS	MSD	TC11357-4	Limits
460-00-4	4-Bromofluorobenzene	100%	99%	104%	42-123%
98-08-8	aaa-Trifluorotoluene	100%	101%	101%	51-130%

(a) Sample dilution required. Analyzed beyond hold time.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC11357-3MS	TT006538.D	50	07/02/12	CC	n/a	n/a	GTT284
TC11357-3MSD	TT006539.D	50	07/02/12	CC	n/a	n/a	GTT284
TC11357-3 [a]	TT006537.D	50	07/02/12	CC	n/a	n/a	GTT284

The QC reported here applies to the following samples: **Method:** SW846 8021B

TC11357-1, TC11357-4

CAS No.	Compound	TC11357-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		1000	952	95	940	94	1	81-116/14

CAS No.	Surrogate Recoveries	MS	MSD	TC11357-3	Limits
460-00-4	4-Bromofluorobenzene	99%	99%		58-125%
98-08-8	aaa-Trifluorotoluene	94%	94%		73-139%

(a) Sample used for QC purposes only.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC11485-1MS	TT006562.D	1	07/03/12	CC	n/a	n/a	GTT286
TC11485-1MSD	TT006563.D	1	07/03/12	CC	n/a	n/a	GTT286
TC11485-1	TT006561.D	1	07/03/12	CC	n/a	n/a	GTT286

The QC reported here applies to the following samples: **Method:** SW846 8021B

TC11357-1, TC11357-2, TC11357-3, TC11357-4, TC11357-5

CAS No.	Compound	TC11485-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.6	103	20.3	102	1	86-121/19
100-41-4	Ethylbenzene	ND		20	21.5	108	21.3	107	1	81-116/14
108-88-3	Toluene	ND		20	20.9	105	20.6	103	1	87-117/16
1330-20-7	Xylenes (total)	ND		60	64.2	107	63.5	106	1	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	TC11485-1	Limits
460-00-4	4-Bromofluorobenzene	101%	102%	100%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	98%	97%	73-139%

* = Outside of Control Limits.

Gulf Coast ACCUTEST LABORATORIES

GC Semi-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: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24016-MB	CC226583.D	1	06/29/12	RM	06/27/12	OP24016	GCC1349

The QC reported here applies to the following samples: **Method:** SW846 8015 M

TC11357-1, TC11357-2, TC11357-3, TC11357-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.10	0.023	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	82%	25-112%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TC11357
Account: DUKE DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24016-BS	CC226584.D	1	06/29/12	RM	06/27/12	OP24016	GCC1349
OP24016-BSD [a]	CC226585.D	1	06/29/12	RM	06/27/12	OP24016	GCC1349

The QC reported here applies to the following samples: **Method:** SW846 8015 M

TC11357-1, TC11357-2, TC11357-3, TC11357-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	1	0.647	65	0.661	66	2	41-105/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	77%	86%	25-112%

(a) Insufficient sample volume for MS/MSD

* = Outside of Control Limits.

Gulf Coast ACCUTEST LABORATORIES

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: TC11357
Account: DUKE - DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP19797/GN43216	0.50	0.0	mg/l	10	10.3	103.0	90-110%

Associated Samples:
Batch GP19797: TC11357-1, TC11357-2, TC11357-3, TC11357-4
(*) Outside of QC limits

7.1
7

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC11357
Account: DUKE - DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP19797/GN43216	TC11357-2	mg/l	435	434	0.2	0-20%

Associated Samples:
Batch GP19797: TC11357-1, TC11357-2, TC11357-3, TC11357-4
(*) Outside of QC limits

7.2

7

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC11357
Account: DUKE - DCP Midstream, LLC
Project: CRA: Burton Flats Eddy County Carlsbad, NM

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP19797/GN43216	TC11357-2	mg/l	435	500	942	101.4	80-120%

Associated Samples:
Batch GP19797: TC11357-1, TC11357-2, TC11357-3, TC11357-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

7.3