# 2R - 799

# Q4 2012 GWMR

04/02/2013



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

April 2, 2013

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

703 APR -5 P =: (C)

RE: Fourth 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 Fourth 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  $\underline{CECole@dcpmidstream.com}$ .

Sincerely,

DCP Midstream, LP

(handler & Other

Chandler E Cole

Senior Environmental Specialist

Enclosure

cc: Mr. Mike Bratcher - EMNRD

Mr. Jim Griswold - EMNRD

Mr. Jim Amos – BLM Carlsbad

**Environmental Files** 

## Fourth Quarter 2012 Groundwater Monitoring and Activities Summary Report

### Burton Flats Booster Station Eddy County, New Mexico AP #2R799

Prepared for:



370 17<sup>th</sup> St., Suite 2500 Denver, CO 80202

Prepared by:



6899 Pecos Street, Unit C Denver, Colorado 80221

February 15, 2013



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В



#### 1. Introduction

This report summarizes the groundwater monitoring activities conducted during the fourth quarter 2012 at the Burton Flats Booster Station (Site) in Eddy County, New Mexico (Figure 1). Tasman Geosciences, LLC (Tasman) conducted these activities on behalf of DCP Midstream, LP (DCP). Previous groundwater monitoring activities up to and including Third Quarter 2012, were performed by Conestoga-Rovers and Associates (CRA) after which project responsibilities were transferred to Tasman. Field activities were conducted with the purpose of monitoring groundwater flow and quality conditions and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface. Current Site conditions were evaluated from field data and analytical laboratory results collected during the reporting period.

#### 2. Site Location and Background

The Site is located in the Fourth and Fifth Lots of Section 1, Township 21 South, Range 27 East (approximate coordinates 32.5195 degrees north and 104.1507 degrees west). It is approximately 3.4 miles northwest of the intersection of US Highway 62 and County Road 243. The area is sparsely populated and land use is primarily associated with livestock grazing and oil and gas extraction and conveyance.

Based on information included in historical Site investigation reports, a release of approximately 10 barrels (bbl) of oil and produced water occurred on October 5, 2009 of which approximately 8 bbls were recovered from within the tank secondary containment area. Subsequent to the submittal of a C-141 report on October 12, 2009, Ocotillo Environmental was contracted to delineate and remediate residual petroleum hydrocarbon impacts at the Site. Site investigation and soil sampling within the release area occurred during the 3<sup>rd</sup> quarter of 2009 and early 4<sup>th</sup> quarter of 2010 (BH-1 through BH-5). Elevated levels of petroleum hydrocarbons within the soil were encountered to depths of 20-feet below ground surface (bgs). Groundwater was noted between 16-feet and 20-feet bgs during site characterization activities. Subsequent to soil investigation activities, four groundwater monitoring wells were installed around and down-gradient from the release area during the 4<sup>th</sup> quarter of 2011 (MW-1 through MW-4). Elevated petroleum hydrocarbon concentrations in soil were observed during well installation. Consequently, two additional soil borings were completed to a depth of 20 feet bgs in the direct area of impact (SB 11-1 and SB 11-2). Monitoring well and soil boring locations are shown on Figure 2.

Boring logs for the Site monitoring wells indicate that the subsurface geology contains unconsolidated fine-grained sand, silt, and clay sediments. This general characteristic has been utilized in evaluating the historic and current LNAPL behavior. Ongoing monitoring and sampling of the four Site monitoring wells listed above has been conducted on a quarterly basis since installation.



#### 3. Groundwater Monitoring

This section describes the groundwater field and laboratory activities performed during the fourth quarter 2012 monitoring event. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network, MW-1 through MW-4, utilized to perform these activities at the Site.

#### 3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the fourth quarter 2012, groundwater levels were measured at four Site monitoring well locations.

Groundwater levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels and calculated groundwater elevation data are presented in Table 1 and a fourth quarter 2012 groundwater elevation contour map is illustrated on Figure 3. LNAPL levels, where detected by the IP, are also presented in Table 1.

Groundwater elevations ranged from 3,177.32 feet AMSL at monitoring well MW-2 to 3,177.50 feet AMSL at monitoring well MW-3. As illustrated on Figure 3, groundwater flow at the Site generally trends to the northwest with a gradient of approximately 0.0015 foot per foot between monitoring wells MW-2 and MW-3.

Groundwater elevation from MW-4 was not used in calculating hydraulic gradient due to the presence of LNAPL. The selected elevations were directly measured and are representative of the general observed gradient and flow direction.

LNAPL was detected at monitoring well MW-4 during the fourth quarter 2012 with a measured thickness of 1.12-feet.

#### 3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from the three monitoring wells that did not contain measurable LNAPL.

During sampling, a minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collecting groundwater samples. Water quality parameters were collected during the fourth quarter 2012 monitoring event and were used to confirm groundwater stabilization prior to sample collection. Monitoring wells did not require collection of more than three (3) purge volumes to achieve parameter stabilization. As such, the analytical data are considered to be representative of Site conditions in that a minimum 3 purge volumes were evacuated from all sampled monitoring wells during the fourth quarter 2012 event. Groundwater samples were collected using dedicated polyethylene bailers, placed in clean laboratory supplied containers for the selected analytical



methods, packed in an ice-filled cooler and maintained at approximately four (4) degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to ALS Environmental (ALS) laboratory in Houston, Texas, for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B and chloride by USEPA Method 300.

Analytical results indicate that benzene concentrations are in excess of the New Mexico Water Quality Control Commission (NMWQCC) Standard at monitoring well MW-1 at a concentration of 0.020 mg/L. LNAPL was detected at one location (MW-4) as indicated in Section 3.1 above.

Chloride was detected in MW-1, MW-2, and MW-3 with concentrations of 599 mg/L, 1,120 mg/L, and 444 mg/L, respectfully. Chloride values in all of the wells exceeded the NMWQCC suggested guideline of 250 mg/L.

Figure 4 displays analytical results from the fourth quarter 2012 event as well as the third quarter 2012 analytical results. Table 2 presents fourth quarter 2012 monitoring data along with data collected during the previous 3 quarters. Laboratory analytical reports for the event are included as Appendix A.

#### 3.3 Data Quality Assurance / Quality Control

The data were reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed and indicate that samples were received at the proper temperature with no headspace. All data were reported using the correct method number and reporting units. A trip blank, matrix spike or matrix spike duplicate (MS/MSD) and field duplicate sample from MW-2 were collected during the sampling event. The trip blank was fully in control, having no detection of targets.

The duplicate sample collected at MW-2 was in compliance with QA/QC standards. BTEX concentrations in MW-2 and duplicate sample were below laboratory detection limits.

The overall QA/QC assessment of the data, based on the data review, indicate that both field precision and overall data precision and accuracy are acceptable.

#### 4. Remediation Activities

Monitored natural attenuation is the current remediation strategy at the Site. Additional remediation options have been evaluated and are outlined below in the recommendations section.



#### 5. Conclusions

Comparison of the fourth quarter 2012 monitoring data and historic information provides the following general observations:

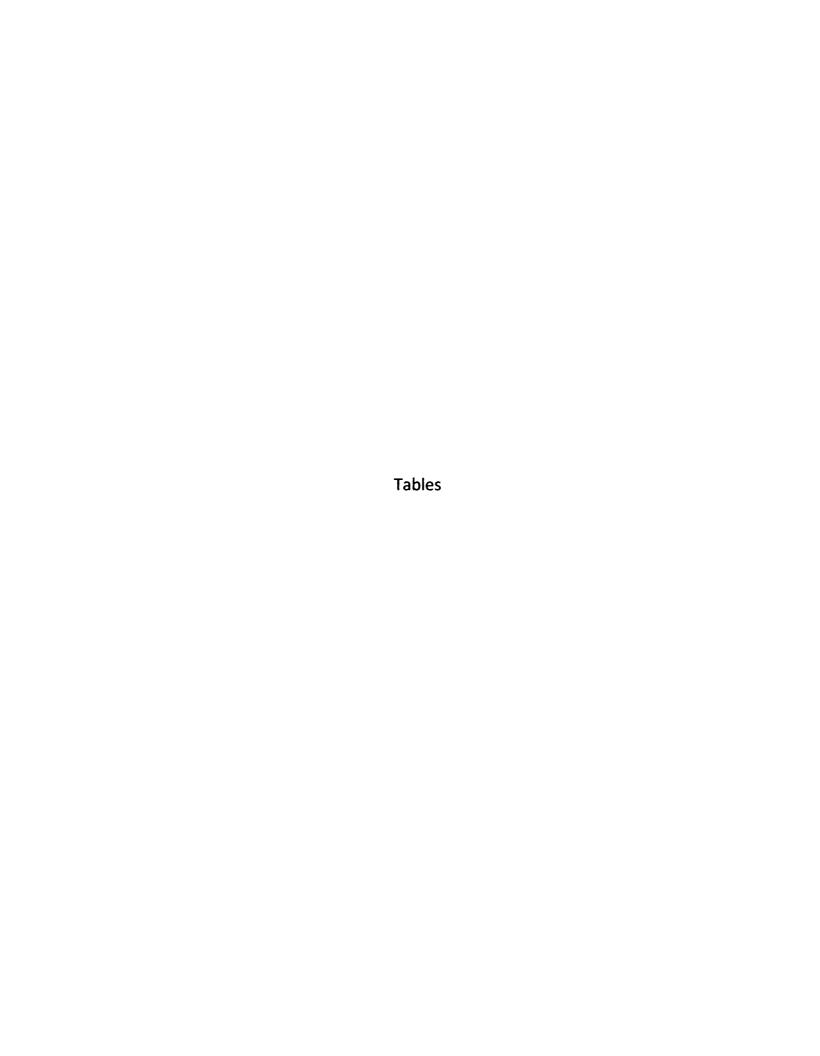
The groundwater elevation surface beneath the Site has remained stable with minor seasonal and annual fluctuations since monitoring was initiated in December 2011. There was no significant deviation from this trend during the fourth quarter 2012.

Elevated dissolved phase BTEX concentrations persist at down-gradient well MW-1, although concentrations have decreased by an order of magnitude since the first monitoring event in 2011. Monitoring wells MW-2 and MW-3 remain below laboratory detection limits suggesting that the dissolved phase hydrocarbon plume has minor lateral dispersion across the Site. Both the dissolved and free phase petroleum hydrocarbon plumes appear stationary possibly due to attenuation, low permeability within the aquifer, low hydraulic gradient, and/or a combination of these factors.

#### 6. Recommendations

Based on evaluation of fourth quarter 2012 and historical Site observations and monitoring results, recommendations for future activities include:

- Installation of a passive LNAPL collection bailer at MW-4 to address residual free phase hydrocarbons.
- Continue quarterly groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2 to assess impacts of the contaminant fate and transport.



#### TABLE 1

#### **FOURTH QUARTER 2012**

#### SUMMARY OF GROUNDWATER ELEVATION DATA BURTON FLATS BOOSTER STATION EDDY COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (1) (feet)	Depth to Product (1) (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (2) (feet)	TOC Elevation (feet amsl)	Groundwater Elevation* (feet amsl)	Change in Groundwater Elevation Since Previous Event (3) (feet)
MW-1	12/14/2011	21.17						
MW-1	4/26/2012	21.24				3198.88	3177.64	
MW-1	6/20/2012	21.50				3198.88	3177.38	-0.26
MW-1	9/26/2012	21.65				3198.88	3177.23	-0.15
MW-1	12/5/2012	21.51			34.25	3198.88	3177.37	-0.01
MW-2	12/14/2011	22.33						
MW-2	4/26/2012	22.39				3200.00	3177.61	
MW-2	6/20/2012	22.66				3200.00	3177.34	-0.27
MW-2	9/26/2012	22.78				3200.00	3177.22	-0.12
MW-2	12/5/2012	22.68			32.85	3200.00	3177.32	-0.02
MW-3	12/14/2011	23.02			1			
MW-3	4/26/2012	23.08				3200.85	3177.77	
MW-3	6/20/2012	23.18				3200.85	3177.67	-0.10
MW-3	9/26/2012	23.40				3200.85	3177.45	-0.22
MW-3	12/5/2012	23.35			34.23	3200.85	3177.50	-0.17
MW-4*	4/26/2012	24.00	23.01	0.99	T T	NM	NM	NM
MW-4*	6/20/2012	24.82	23.07	1.75		NM	NM	NM
MW-4*	9/26/2012	25.26	23.21	2.05		NM	NM	NM
MW-4*	12/5/2012	24.34	23.22	1.12	NM	NM	NM	NM
				Average chan	ge in groundwater e	levation since the pr	evious monitoring event	-0.07

#### Notes:

- 1- Depths measured from the north edge of the well casing.
- 2- Total depths were collected and recorded during the fourth quarter 2012 monitoring event (with the exception of wells that contained LNAPL).
- 3- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring even from the measurement collected during the most recent monitoring event.
- 4- Data presented for well locations includes previous four sampling events, when available.
- 5- TOC elevation for monitoring well MW-4 was not available at the time this report was generated. Therefore, groundwater elevation could not be calculated. Sample locations are shown on Figure 2 and a groundwater elevation contour map is shown on Figure 3.
- amsl feet above mean sea level.

TOC - top of casing NM - not measured

# TABLE 2 FOURTH QUARTER 2012 SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER BURTON FLATS BOOSTER STATION EDDY COUNTY, NEW MEXICO

Location Identification New Mexico Water Quality Control Commission	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Chlorides (mg/l)	Comments
Groundwater Standards		0.01 (mg/l)	0.75 (mg/l)	0.75 (mg/l)	0.62 (mg/l)	250*	
MW-1	12/14/2011	0.140	0.0034	0.200	0.111	665	Duplicate sample collected
MW-1	4/26/2012	0.153	<0.001	0.229	0.0073	584	Duplicate sample concercu
MW-1	6/20/2012	0.0967	<0.001	0.284	0.0474	651	Duplicate sample collected
MW-1	9/26/2012	0.0615	<0.001	0.0803	0.0015	590	Supredict Surrey Control
MW-1	12/5/2012	0.020	0.17	< 0.001	0.037	599	
MW-2	12/14/2011	<0.001	< 0.001	<0.001	< 0.003	1,170	
MW-2	4/26/2012	< 0.001	< 0.001	< 0.001	< 0.003	1,040	
MW-2	6/20/2012	< 0.001	< 0.001	<0.001	< 0.003	1,150	
MW-2	9/26/2012	< 0.001	< 0.001	< 0.001	< 0.003	1,130	
MW-2	12/5/2012	<0.001	< 0.001	<0.001	< 0.003	1,120	Duplicate sample collected
MW-3	12/14/2011	<0.001	< 0.001	<0.001	< 0.003	426	
MW-3	4/26/2012	< 0.001	< 0.001	< 0.001	< 0.003	406	Duplicate sample collected
MW-3	6/20/2012	< 0.001	< 0.001	< 0.001	< 0.003	435	
MW-3	9/26/2012	< 0.001	< 0.001	0.00057	< 0.003	447	Duplicate sample collected
MW-3	12/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	444	
MW-4*	4/26/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4*	6/20/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4*	9/26/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4*	12/5/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	

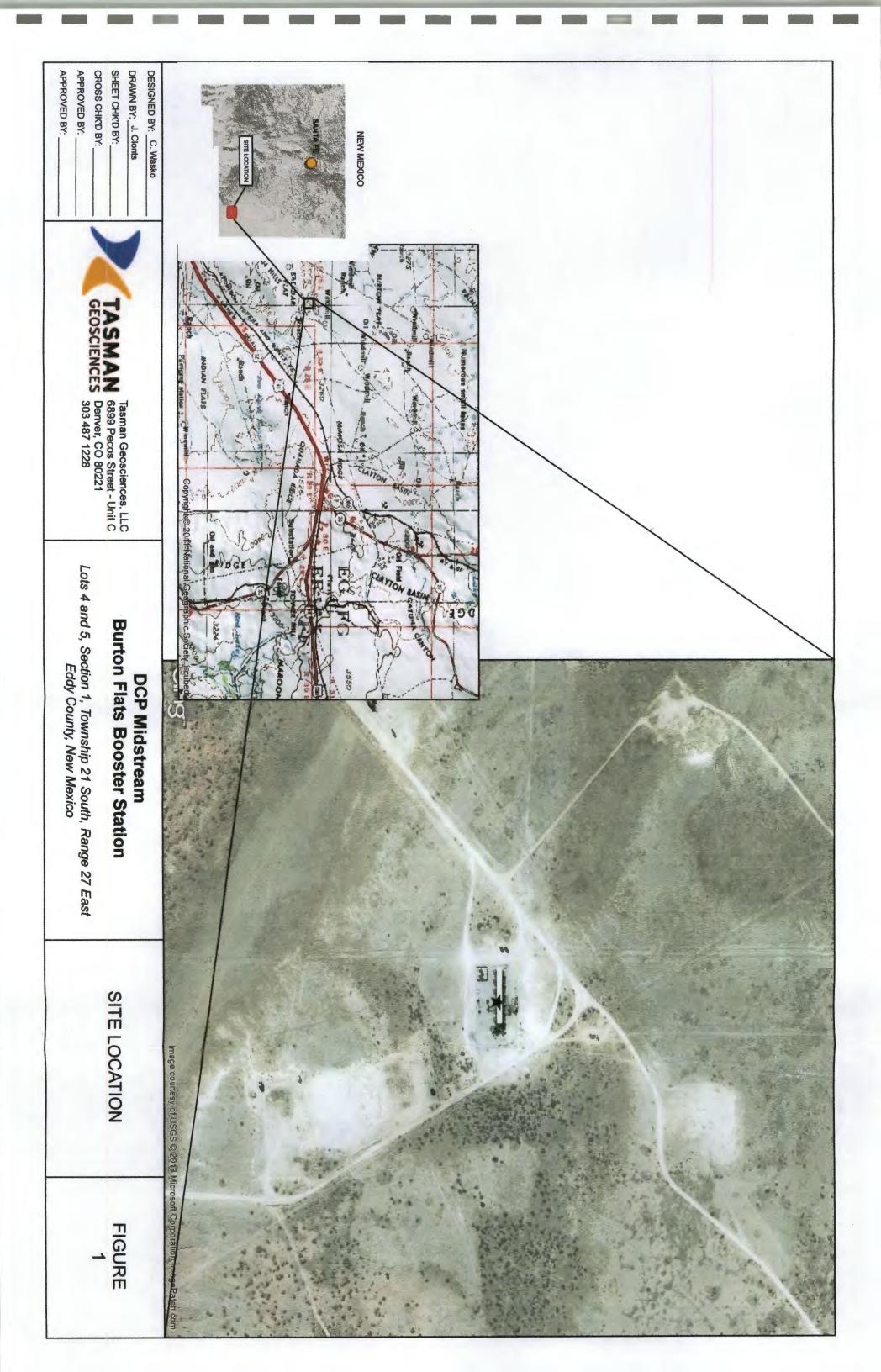
#### Notes:

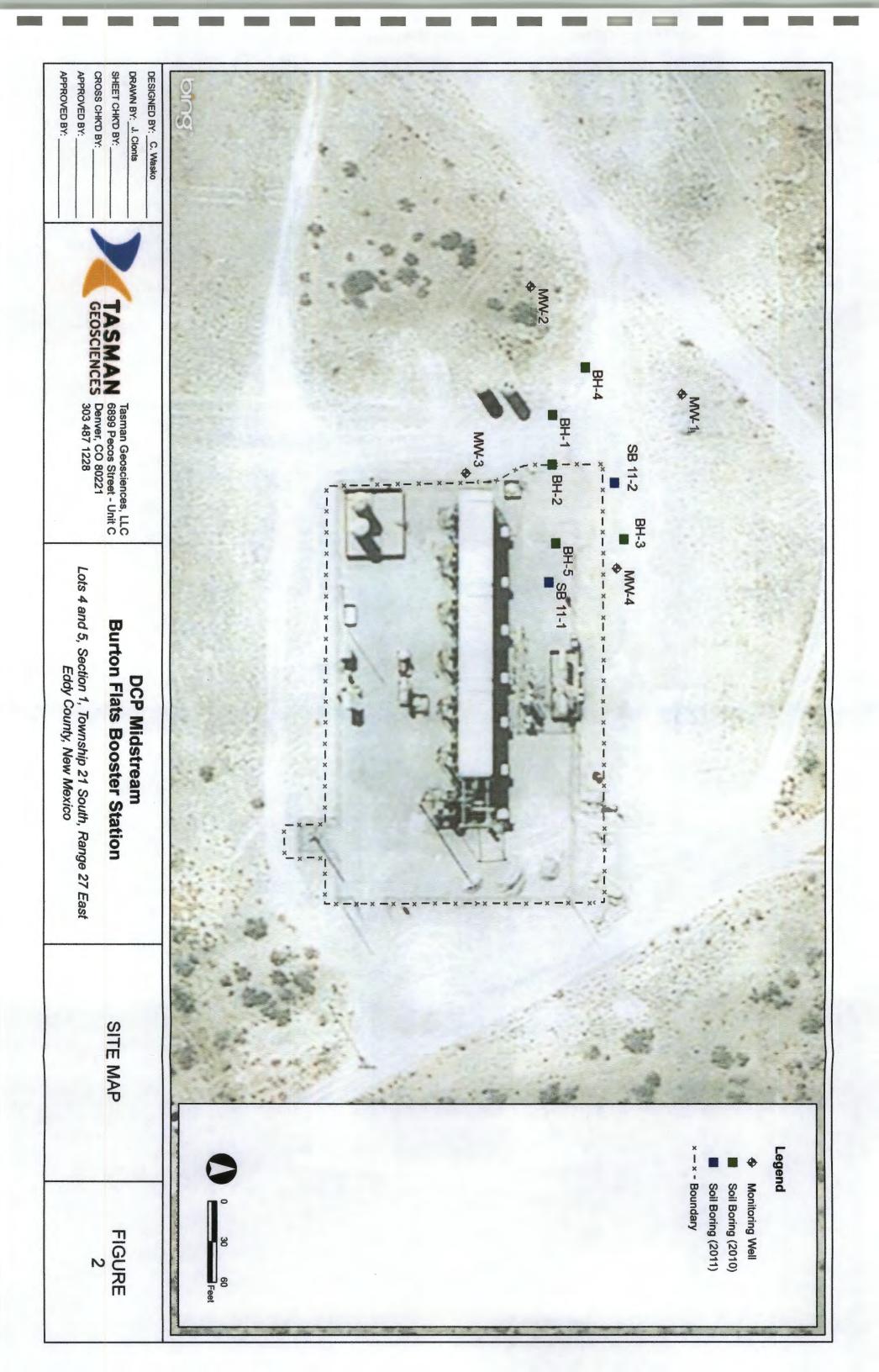
- 1.) The environmental cleanup standards for water that are applicable to the Burton Flats Booster Station site are the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards.
- 2.) Data presented for all well locations includes previous four sampling events, when available.
- \* Chlorides are subject to the National Secondary Drinking Water Regulations (NSDWR) secondary maximum contaminant levels (SMCLs) and not an enforceably regulated constituent. The 250 mg/L standard is established only as a guideline to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor.

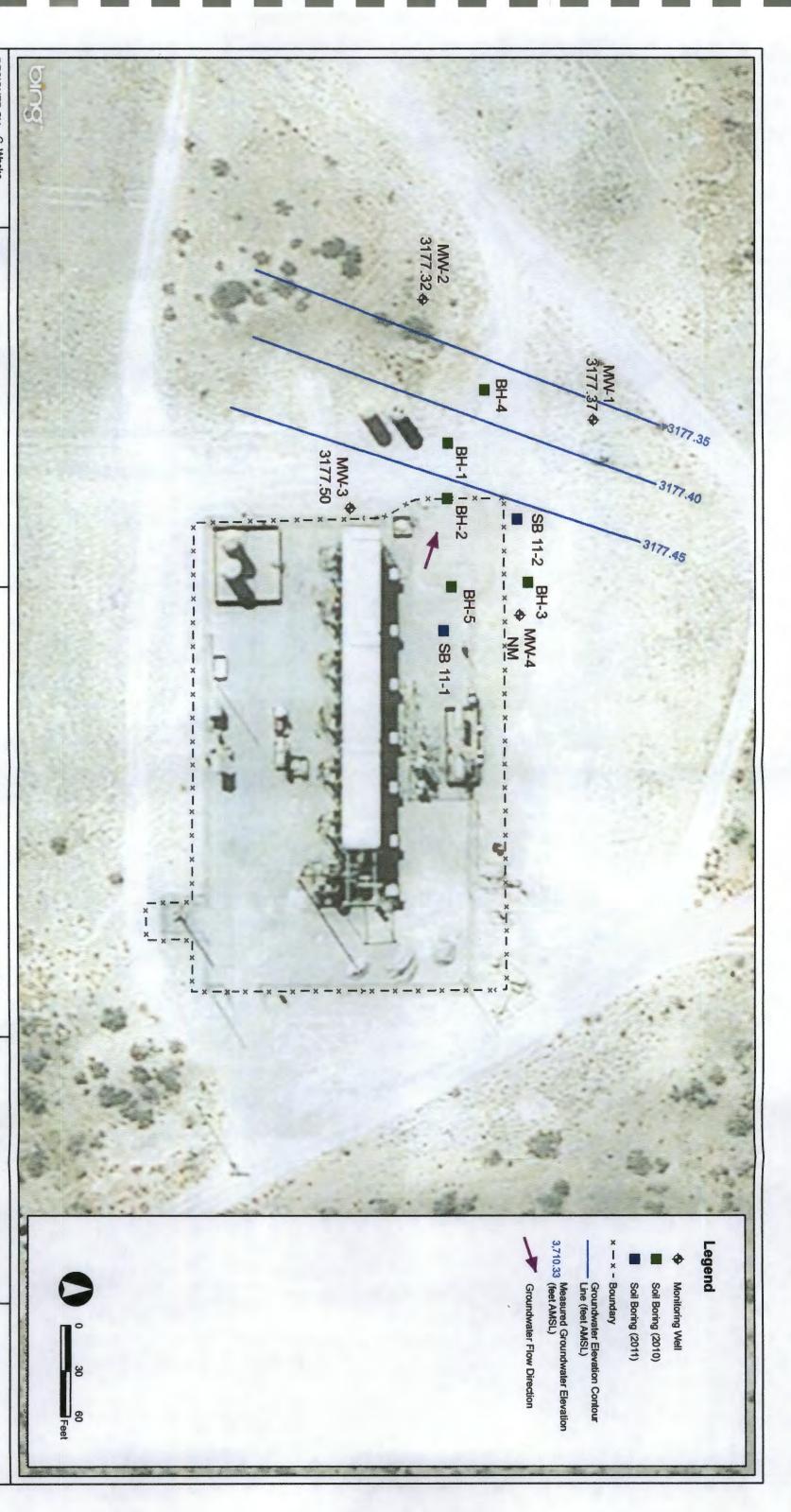
Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site. Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4. LNAPL = Light Non-Aqueous Phase Liquid NM = Not measured.

mg/L = milligrams per liter.

Figures







DRAWN BY: \_J. Clonts

SHEET CHK'D BY: \_\_
CROSS CHK'D BY: \_\_
APPROVED BY: \_\_
APPROVED BY: \_\_

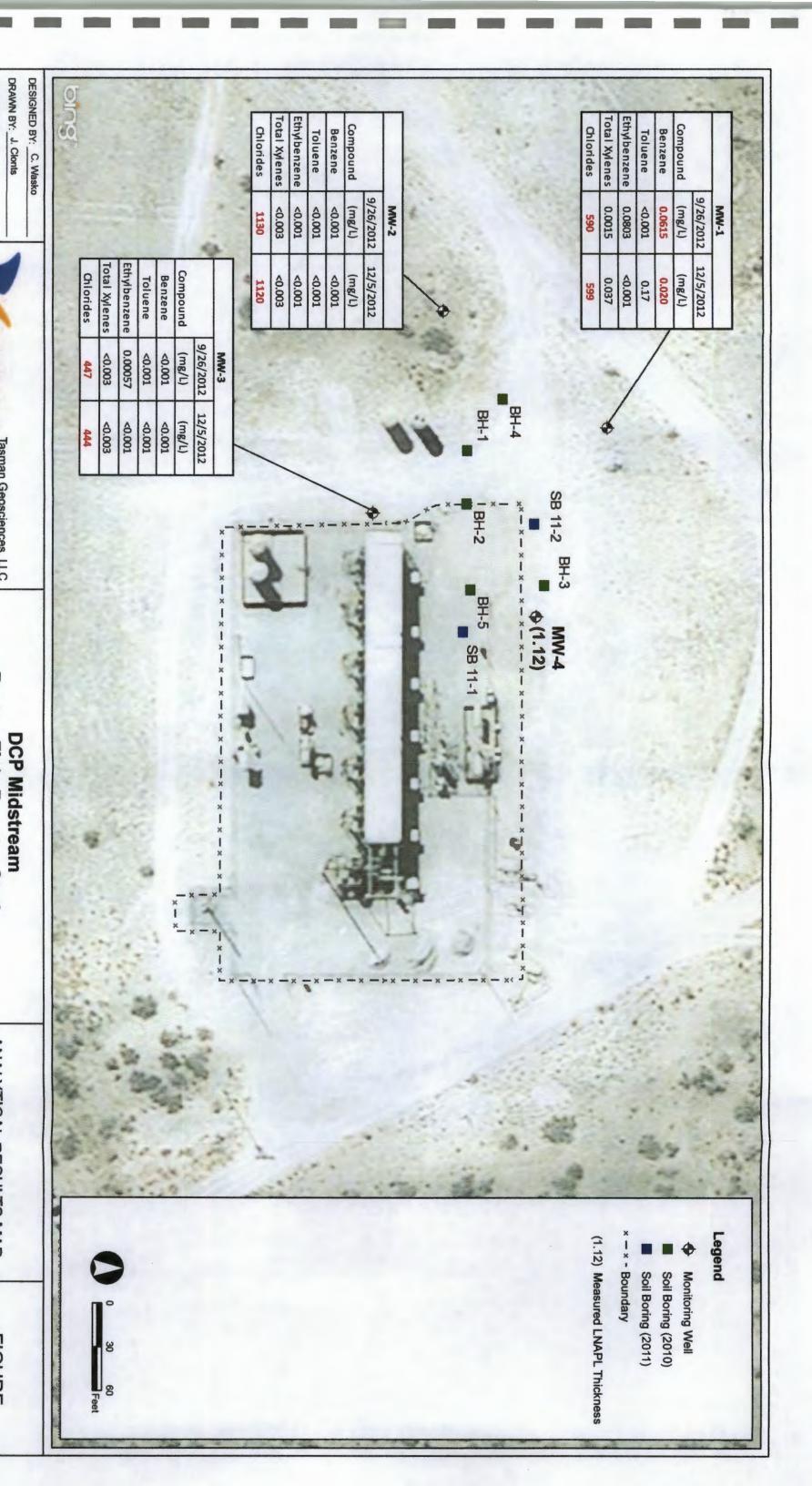
TASMAN 6899 Pecos Street - Unit C
GEOSCIENCES Denver, CO 80221
303 487 1228

# DCP Midstream Burton Flats Booster Station

Lots 4 and 5, Section 1, Township 21 South, Range 27 East Eddy County, New Mexico

POTENTIOMETRIC SURFACE
MAP

FIGURE 3



CROSS CHKD BY:

TASMAN 6899 Pecos Street - Unit C
GEOSCIENCES Denver, CO 80221
303 487 1228

Lots 4 and 5, Section 1, Township 21 South, Range 27 East Eddy County, New Mexico

**Burton Flats Booster Station** 

ANALYTICAL RESULTS MAP ( DECEMBER 5, 2012 )

FIGURE 4

APPROVED BY:

Appendix A

Laboratory Analytical Reports



17-Dec-2012

Christine Wasko Tasman Geosciences 5690 Webster Street Arvada, CO 80002

Tel: (720) 988-2024

Fax:

Re: Burton Flats Booster Station Work Order: 1212312

Dear Christine,

ALS Environmental received 5 samples on 08-Dec-2012 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS. Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Luke F. Hernandez

Sonia West

Sonia West Project Manager A SO ROPE

Certificate No: T104704231-09A-TX

Client: Tasman Geosciences

Project: Burton Flats Booster Station Work Order Sample Summary

Work Order: 1212312

			·
Lab Samp ID Client Sample ID	Matrix Tag Number	Collection Date	Date Received Hold
1212312-01 MW - 1	Water	12/5/2012 15:25	12/8/2012 09:30
1212312-02 MW - 2	Water	12/5/2012 15:05	12/8/2012 09:30
1212312-03 MW - 3	Water	12/5/2012 15:45	12/8/2012 09:30
1212312-04 DUP	Water	12/5/2012	12/8/2012 09:30
1212312-05 Trip Blank 111912-19	Water	12/5/2012	12/8/2012 09:30

Date: 17-Dec-12

ALS Environmental

Date: 17-Dec-12

Client: Tasman Geosciences

Project: Burton Flats Booster Station Case Narrative

Work Order: 1212312

Batch R139935, Method 300\_W, Sample MW-3: MS/MSD was outside of the QC limits due to possible matrix interference.

Date: 17-Dec-12

Client:

Tasman Geosciences

**Project:** 

Note:

**Burton Flats Booster Station** 

Sample ID:

MW - 1

Collection Date: 12/5/2012 03:25 PM

Work Order: 1212312

**Lab ID:** 1212312-01

Matrix: WATER

Analyses	Result	Quai	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: AKP
Benzene	0.020		0.0010	mg/L	1	12/16/2012 05:03 AM
Ethylbenzene	0.17		0.0010	mg/L	1	12/16/2012 05:03 AM
Toluene	ND		0.0010	mg/L	1	12/16/2012 05:03 AM
Xylenes, Total	0.037		0.0030	mg/L	1	12/16/2012 05:03 AM
Surr: 1,2-Dichloroethane-d4	88.7		71-125	%REC	1	12/16/2012 05:03 AM
Surr: 4-Bromofluorobenzene	89.2		70-125	%REC	1	12/16/2012 05:03 AM
Surr: Dibromofluoromethane	92.9		74-125	%REC	1	12/16/2012 05:03 AM
Surr: Toluene-d8	90.9		78-123	%REC	1	12/16/2012 05:03 AM
ANIONS - EPA 300.0 (1993)			E300			Analyst: <b>JKP</b>
Chloride	599		25.0	mg/L	50	12/17/2012 10:05 AM
Surr: Selenate (surr)	101		85-115	%REC	50	12/17/2012 10:05 AM

Date: 17-Dec-12

Client:

Tasman Geosciences

**Project:** 

Note:

**Burton Flats Booster Station** 

Sample ID:

MW - 2

Collection Date: 12/5/2012 03:05 PM

Work Order: 1212312

Lab ID: 1212312-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: AKP
Benzene	ND		0.0010	mg/L	1	12/16/2012 05:27 AM
Ethylbenzene	ND		0.0010	mg/L	1	12/16/2012 05:27 AM
Toluene	ND		0.0010	mg/L	1	12/16/2012 05:27 AM
Xylenes, Total	ND		0.0030	mg/L	1	12/16/2012 05:27 AM
Surr: 1,2-Dichloroethane-d4	93.8		71-125	%REC	1	12/16/2012 05:27 AM
Surr: 4-Bromofluorobenzene	86.6		70-125	%REC	1	12/16/2012 05:27 AM
Surr: Dibromofluoromethane	96.0		74-125	%REC	1	12/16/2012 05:27 AM
Surr: Toluene-d8	94.3		78-123	%REC	1	12/16/2012 05:27 AM
ANIONS - EPA 300.0 (1993)			E300			Analyst: <b>JKP</b>
Chloride	1,120		25.0	mg/L	50	12/17/2012 10:27 AM
Surr: Selenate (surr)	99.8		85-115	%REC	50	12/17/2012 10:27 AM

Date: 17-Dec-12

Client:

Tasman Geosciences

**Project:** 

Note:

**Burton Flats Booster Station** 

Sample ID:

MW - 3

Collection Date: 12/5/2012 03:45 PM

W - 3

Work Order: 1212312

Lab ID: 1212312-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: AKP
Benzene	ND		0.0010	mg/L	1	12/16/2012 12:36 AM
Ethylbenzene	ND		0.0010	mg/L	1	12/16/2012 12:36 AM
Toluene	ND		0.0010	mg/L	1	12/16/2012 12:36 AM
Xylenes, Total	ND		0.0030	mg/L	1	12/16/2012 12:36 AM
Surr: 1,2-Dichloroethane-d4	91.3		71-125	%REC	1	12/16/2012 12:36 AM
Surr: 4-Bromofluorobenzene	<b>83</b> .7		70-125	%REC	1	12/16/2012 12:36 AM
Surr: Dibromofluoromethane	92.6		74-125	%REC	1	12/16/2012 12:36 AM
Surr: Toluene-d8	93.1		78-123	%REC	1	12/16/2012 12:36 AM
ANIONS - EPA 300.0 (1993)			E300			Analyst: JKP
Chloride	444		5.00	mg/L	10	12/17/2012 10:48 AM
Surr: Selenate (surr)	101		85-115	%REC	10	12/17/2012 10:48 AM

Collection Date: 12/5/2012

Date: 17-Dec-12

Client:

Tasman Geosciences

Project:

Note:

**Burton Flats Booster Station** 

Sample ID:

**DUP** 

Work Order: 1212312

Lab ID: 1212312-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: AKP
Benzene	ND		0.0010	) mg/L	1	12/16/2012 05:52 AM
Ethylbenzene	ND		0.0010	) mg/L	1	12/16/2012 05:52 AM
Toluene	ND		0.0010	mg/L	1	12/16/2012 05:52 AM
Xylenes, Total	ND		0.003	mg/L	1	12/16/2012 05:52 AM
Surr: 1,2-Dichloroethane-d4	92.4		71-12	5 %REC	1	12/16/2012 05:52 AM
Surr: 4-Bromofluorobenzene	84.3		70-12	5 %REC	1	12/16/2012 05:52 AM
Surr: Dibromofluoromethane	94.1		74-12	5 %REC	1	12/16/2012 05:52 AM
Surr: Toluene-d8	93.6		78-12	3 %REC	1	12/16/2012 05:52 AM

Date: 17-Dec-12

QC BATCH REPORT

Client:

Tasman Geosciences

Work Order:

1212312

Project:

**Burton Flats Booster Station** 

Method: SW8260 Batch ID: R139916 Instrument ID VOA4 Analysis Date: 12/16/2012 12:11 AM **MBLK** Sample ID: VBLKW-121215-R139916 Units: µg/L Client ID: Run ID: VOA4\_121215A SeqNo: 3054760 Prep Date: DF: 1 RPD SPK Ref RPD Ref Control Limit Value Limit Value %REC %RPD Qual Analyte Result PQL SPK Vai Benzene ND 1.0 Ethylbenzene ND 1.0 Toluene ND 1.0 ND Xylenes, Total 0.50 1.0 0 90.6 71-125 0 Surr: 1,2-Dichloroethane-d4 45.28 50 50 0 70-125 0 Surr: 4-Bromofluorobenzene 41.78 1.0 83.6 Surr: Dibromofluoromethane 46.07 1.0 50 0 92.1 74-125 0 Surr: Toluene-d8 0 0 46.38 1.0 50 92.8 78-123 LCS Sample ID: VLCSW-121215-R139916 Units: µg/L Analysis Date: 12/15/2012 10:59 PM Client ID: Run ID: VOA4 121215A SeqNo: 3054758 Prep Date: DF: 1 RPD SPK Ref Control RPD Ref Value Limit Value Limit Analyte Result **PQL** SPK Val %REC %RPD Qual 50.73 1.0 50 0 101 80-120 0 Benzene Ethylbenzene 53.38 1.0 50 0 107 80-120 0 51.92 50 0 Toluene 1.0 0 104 80-121 Xylenes, Total 158.7 0.50 150 0 106 80-124 0 43.2 1.0 50 0 86.4 71-125 0 Surr: 1,2-Dichloroethane-d4 89.9 Surr: 4-Bromofluorobenzene 44.96 1.0 50 0 70-125 0 Surr: Dibromofluoromethane 45.7 1.0 50 0 91.4 74-125 0 78-123 Surr: Toluene-d8 1.0 0 93.1 0 46.56 50 LCSD Analysis Date: 12/15/2012 11:23 PM Sample ID: VLCSDW-121215-R139916 Units: µg/L Client ID: Run ID: VOA4\_121215A SeqNo: 3054759 Prep Date: DF: 1 RPD SPK Ref RPD Ref Control Value Limit Value Limit %RPD Qual Analyte Result **PQL** SPK Val %REC Benzene 48.41 1.0 50 0 96.8 80-120 50.73 4.67 20 Ethylbenzene 51.02 1.0 50 0 102 80-120 53.38 4.53 20 Toluene 49.93 1.0 50 0 99.9 80-121 51.92 3.92 20 Xylenes, Total 151.8 0.50 150 0 101 80-124 158.7 4.5 20 0 71-125 43.2 1.26 Surr: 1,2-Dichloroethane-d4 42.66 1.0 50 85.3 20 Surr: 4-Bromofluorobenzene 44.22 1.0 50 0 88.4 70-125 44.96 1.68 20 Surr: Dibromofluoromethane 45.73 1.0 50 0 91.5 74-125 45.7 0.0572 20 Surr: Toluene-d8 46.35 1.0 50 0 92.7 78-123 46.56 0.458 20

Client:

Tasman Geosciences

Work Order:

1212312

Project:

**Burton Flats Booster Station** 

MS Sample ID: 1212312-0	D3AMS				Units: µg/l	•	Analysi	s Date: 12	2/16/2012	01:00 AN
Client ID: MW - 3	Run II	D: <b>VOA4_</b>	121215A	s	eqNo: <b>305</b>	4762	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.58	1.0	50	0	109	80-120	0			
Ethylbenzene	55.77	1.0	50	0	112	80-120	0			
Toluene	54.65	1.0	50	0	109	80-121	0			
Xylenes, Total	165.3	0.50	150	0	110	80-124	0			
Surr: 1,2-Dichloroethane-d4	43.39	1.0	50	0	86.8	71-125	0			
Surr: 4-Bromofluorobenzene	43.99	1.0	50	0	88	70-125	0			
Surr: Dibromofluoromethane	45.29	1.0	50	0	90.6	74-125	0			
Surr: Toluene-d8	46.28	1.0	50	0	92.6	78-123	0			
		1.0	50	0	92.6 Units: µg/l			s Date: 12	2/16/2012	01:25 AM
	3AMSD	1.0 D: <b>VOA4_</b>						s Date: 12	2/16/2012 DF: 1	01:25 AM
MSD Sample ID: 1212312-0 Client ID: MW - 3	3AMSD				Units: µg/l		Analysi	s Date: <b>12</b> %RPD		<b>01:25 AM</b> Qual
MSD Sample ID: 1212312-0 Client ID: MW - 3	D3AMSD Run I	D: <b>VOA4_</b>	121215A	S SPK Ref	Units: µg/l eqNo: 305	4763 Control	Analysi Prep Date: RPD Ref		DF: 1 RPD	
MSD Sample ID: 1212312-0 Client ID: MW - 3 Analyte Benzene	O3AMSD Run II Result	D: <b>VOA4_</b> PQL	<b>121215A</b> SPK Val	S SPK Ref Value	Units: µg/l eqNo: 305 %REC	- 4763 Control Limit	Analysi Prep Date: RPD Ref Value	%RPD	DF: 1 RPD Limit	
MSD Sample ID: 1212312-0 Client ID: MW - 3 Analyte Benzene Ethylbenzene	Run li Result 53.25	D: <b>VOA4_</b> PQL 1.0	121215A SPK Val 50	SPK Ref Value	Units: µg/l eqNo: 305 %REC 106	4763 Control Limit 80-120	Analysi Prep Date: RPD Ref Value 54.58	%RPD 2.47	DF: 1 RPD Limit	
MSD Sample ID: 1212312-0 Client ID: MW - 3 Analyte	Run II  Result  53.25 55.46	D: <b>VOA4_</b> PQL 1.0 1.0	121215A SPK Val 50 50	SPK Ref Value	Units: µg/l eqNo: 305 %REC 106 111	4763 Control Limit 80-120 80-120	Analysi Prep Date: RPD Ref Value 54.58 55.77	%RPD 2.47 0.559	DF: 1 RPD Limit 20 20	
MSD Sample ID: 1212312-0 Client ID: MW - 3  Analyte Benzene Ethylbenzene Toluene	Run II  Result  53.25  55.46  54.55	PQL 1.0 1.0 1.0	121215A SPK Val 50 50 50	SPK Ref Value 0 0	Units: μg/leqNo: 305  %REC  106 111 109	4763 Control Limit 80-120 80-120 80-121	Analysi Prep Date:  RPD Ref Value  54.58  55.77  54.65	%RPD 2.47 0.559 0.184	DF: 1 RPD Limit 20 20 20	
MSD Sample ID: 1212312-0 Client ID: MW - 3 Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result 53.25 55.46 54.55 164.2	PQL 1.0 1.0 1.0 0.50	121215A SPK Val 50 50 50 150	SPK Ref Value 0 0 0	Units: μg/leqNo: 305  %REC  106 111 109 109	4763 Control Limit 80-120 80-121 80-121	Analysi Prep Date:  RPD Ref Value  54.58  55.77  54.65 165.3	%RPD 2.47 0.559 0.184 0.632	DF: 1 RPD Limit 20 20 20 20	
MSD Sample ID: 1212312-0 Client ID: MW - 3  Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Result  53.25 55.46 54.55 164.2 42.79	PQL 1.0 1.0 1.0 0.50	50 50 50 150 50	SPK Ref Value  0 0 0 0	Units: μg/leqNo: 305  %REC  106 111 109 109 85.6	4763 Control Limit 80-120 80-120 80-121 80-124 71-125	Analysi Prep Date:  RPD Ref Value  54.58 55.77 54.65 165.3 43.39	%RPD  2.47 0.559 0.184 0.632 1.4	DF: 1 RPD Limit 20 20 20 20 20	

QC BATCH REPORT

Client:

**Tasman Geosciences** 

Work Order:

1212312

Project:

**Burton Flats Booster Station** 

Batch ID: R139935	Instrument ID ICS3000		Method	: E300		(Dissolve	)			
MBLK Sample II	D: WBLKW1-121612-R139935			****	Units: mg/	L	Anal	ysis Date: 12	2/17/2012	02:17 AN
Client ID:	Run ID	): ICS300	0_121216B	S	SeqNo: <b>305</b>	5162	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Surr: Selenate (surr)	4.822	0.10	5	0	96.4	85-115	<u></u>	0		
LCS Sample II	D: WLCSW1-121612-R139935				Units: mg/	L	Anal	ysis Date: 12	2/17/2012	02:38 AN
Client ID:	Run ID	): <b>ICS300</b>	0_121216B	S	SeqNo: <b>305</b>	5164	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.45	0.50	20	0	92.3	90-110		0		
	18.45 <i>4</i> .67	0.50 0.10	20 5	0		90-110 <i>85-115</i>		0		
Chloride Surr: Selenate (surr)				-		85-115	Anal	_	2/17/2012	11:09 AM
Chloride Surr: Selenate (surr)	4.67 D: 1212312-03BMS	0.10		0	93.4	85-115 L	Anal Prep Date:	0	2/17/2012 DF: 10	
Chloride Surr: Selenate (surr)  MS Sample II	4.67 D: 1212312-03BMS	0.10	5	0	93.4 Units: <b>mg/</b>	85-115 L	·	0		
Chloride Surr: Selenate (surr)  MS Sample II Client ID: MW - 3	4.67 D: <b>1212312-03BMS</b> Run ID	0.10 D: <b>ICS300</b>	5 0_121216B	0 SPK Ref	93.4 Units: mg/ SeqNo: 305: %REC	85-115 L 5201 Control	Prep Date:	0 ysis Date: 12	DF: 10 RPD	
Chloride Surr: Selenate (surr)  MS Sample II Client ID: MW - 3  Analyte	4.67 D: <b>1212312-03BMS</b> Run ID Result	0.10 D: <b>ICS300</b> PQL	5 0_121216B SPK Val	0 SPK Ref Value	93.4 Units: mg/ SeqNo: 3056 %REC 67.6	85-115 L 5201 Control Limit	Prep Date:	0 ysis Date: 12 %RPD	DF: 10 RPD	Qual
Chloride Surr: Selenate (surr)  MS Sample II Client ID: MW - 3  Analyte Chloride Surr: Selenate (surr)	4.67 D: 1212312-03BMS Run ID Result	0.10 D: ICS300 PQL 5.0	5 0_121216B SPK Val 100	SPK Ref Value	93.4 Units: mg/ SeqNo: 3056 %REC 67.6	85-115 L 5201 Control Limit 80-120 85-115	Prep Date: RPD Ref Value	ysis Date: 12 %RPD	DF: 10 RPD Limit	Qual SO
Chloride Surr: Selenate (surr)  MS Sample II Client ID: MW - 3  Analyte Chloride Surr: Selenate (surr)	### 4.67  O: 1212312-03BMS  Run ID  Result  512  49.25  O: 1212312-03BMSD	0.10 D: <b>ICS300</b> PQL 5.0 1.0	5 0_121216B SPK Val 100	SPK Ref Value 444.5	93.4 Units: mg/ SeqNo: 305 %REC 67.6 98.5	85-115  Control Limit  80-120 85-115	Prep Date: RPD Ref Value	ysis Date: 12 %RPD 0	DF: 10 RPD Limit	Qual SO 11:30 AN
Chloride Surr: Selenate (surr)  MS Sample II Client ID: MW - 3  Analyte Chloride Surr: Selenate (surr)  MSD Sample II	### 4.67  O: 1212312-03BMS  Run ID  Result  512  49.25  O: 1212312-03BMSD	0.10 D: <b>ICS300</b> PQL 5.0 1.0	5 0_121216B SPK Val 100 50	SPK Ref Value 444.5	93.4 Units: mg/ SeqNo: 305:  %REC 67.6 98.5 Units: mg/	85-115  Control Limit  80-120 85-115	Prep Date:  RPD Ref  Value  Anal	ysis Date: 12 %RPD 0	DF: 10 RPD Limit	Qual SO 11:30 AN
Chloride Surr: Selenate (surr)  MS Sample II Client ID: MW - 3  Analyte Chloride Surr: Selenate (surr)  MSD Sample II Client ID: MW - 3	4.67  D: 1212312-03BMS  Run ID  Result  512  49.25  D: 1212312-03BMSD  Run ID	0.10 D: ICS300 PQL 5.0 1.0	5 0_121216B SPK Val 100 50 0_121216B	SPK Ref Value 444.5	93.4 Units: mg/ SeqNo: 3056 %REC 67.6 98.5 Units: mg/ SeqNo: 3056	85-115 L 5201 Control Limit 80-120 85-115 L 5202 Control	Prep Date:  RPD Ref Value  Anal Prep Date:  RPD Ref Value	ysis Date: 12 %RPD 0 0 vysis Date: 12	DF: 10 RPD Limit  2/17/2012 DF: 10 RPD	Qual SO 11:30 AM
Chloride Surr: Selenate (surr)  MS Sample II Client ID: MW - 3  Analyte Chloride Surr: Selenate (surr)  MSD Sample II Client ID: MW - 3  Analyte	### 4.67  DE 1212312-03BMS  Run ID  Result  512  49.25  DE 1212312-03BMSD  Run ID  Result	0.10 PQL 5.0 1.0 PQL PQL	5 0_121216B SPK Val 100 50 0_121216B SPK Val	SPK Ref Value 444.5 0 SPK Ref Value	93.4 Units: mg/ SeqNo: 305:  %REC 67.6 98.5 Units: mg/ SeqNo: 305:  %REC 70.1	85-115 L 5201 Control Limit 80-120 85-115 L 5202 Control Limit	Prep Date:  RPD Ref Value  Anal Prep Date:  RPD Ref Value	0 ysis Date: 12 %RPD 0 0 ysis Date: 12 %RPD 12 0.504	DF: 10 RPD Limit  2/17/2012 DF: 10 RPD Limit	Qual SO 11:30 AM

**QC BATCH REPORT** 

Date: 17-Dec-12

#### **ALS Environmental**

Client: **Tasman Geosciences** QUALIFIERS, Project: **Burton Flats Booster Station ACRONYMS, UNITS** WorkOrder: 1212312

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
Ü	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program
Units Reported	Description

mg/LMilligrams per Liter

#### Sample Receipt Checklist

Client Name: TASMAN GEOSCIENCES					Date/Time	Receive	d: <u>08-1</u>	<del>Dec-12</del>	<u>09:30</u>		
Work Order: 12	212312				Received b	y:	RDI	<u>N</u>			
Checklist complete	ed by Lahnnie B. Lillin eSignature	10	D-Dec-12	2	Reviewed by:	Sania	West				Dec-12
	water FedEx										
Shipping containe	r/cooler in good condition?		Yes	•	No 🗆	No	t Present				
Custody seals inta	act on shipping container/coole	r?	Yes	✓	No 🗔	No	t Present				
Custody seals inta	act on sample bottles?		Yes		No 🗌	No	t Present	~			
Chain of custody p	present?		Yes	<b>Y</b>	No 🗌						
Chain of custody s	signed when relinquished and i	eceived?	Yes	~	No 🗔						
Chain of custody a	agrees with sample labels?		Yes	<b>Y</b>	No 🗌						
Samples in proper	r container/bottle?		Yes	<b>Y</b>	No 🗔						
Sample containers	s intact?		Yes	✓	No 🗌						
Sufficient sample	volume for indicated test?		Yes	<b>~</b>	No 🗆						
All samples receiv	ved within holding time?		Yes	<b>V</b>	No 🗔						
Container/Temp E	Blank temperature in compliand	e?	Yes	<b>Y</b>	No 🗌						
Temperature(s)/TI	hermometer(s):		5.4 C/	<u>uc</u>			005				
Cooler(s)/Kit(s):			2796								
	e(s) sent to storage:		12/10/						[""]		
	have zero headspace?		Yes		No 🗔		A vials sub	mitted			
	table upon receipt?		Yes		No 🗀	N/A					
pH adjusted? pH adjusted by:			Yes -		No 🗹	N/A					
Login Notes:											
						***************************************				===	
Client Contacted:		Date Contacted:			Person	Contac	ted:				
Contacted By:		Regarding:									
Comments:											
CorrectiveAction:										_	

Environmental

Cincinnati, OH +1 513 733 5336

Fort Collins, CO +1 970 490 1511 Holland, MI +1 616 399 6070

Everett, WA +1 425 356 2600

Chain of Custody Form

coc 10: 76954 Page of

1212312

TASMAN GEOSCIENCES: Tasman Geosciences

Project: Burton Flats Booster Station

Flored Dates and Access of the Property of the		**************************************	
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Focien	Encironmental			-	7		Project: Burton Flats Booster Stauding
				ALS Project Manager:	Manager:		
	Customer Information		Project Information	rmation			
Purchase Order		Project Name		Bukton Flats Bocsier Station		A STEXA	
Work Order		Project Number	311090017 RC#GN00	C#GN00		B -SKO (BUTSIN)	4
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	am, LP		C ZROTATISM	
Send-Report To	Christine Wasko	Invoice Attn	Chandler Cole	And in a first control to the second of the		Anions (9056) CI	201
Address	5690 Wehster Street	Address	370 17th Stre	370 17th Street, Suite 2500		/w ic	
City/State/Zip	Arvada, CO 80002	City/State/Zip	Denver, Colorado 80102	rado 80102		5	
Phore	(720) 988-2024	Phone		o menera de misso se de deste en espera malificada de de defenda en manas, colo co defenda en especial de deste			
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e-Mail Address	AND THE COLUMN TO THE COLUMN T	e-Mail Address		***************************************			Andrew Company of the
2	Sample Description	Date	Ime Matrix	rix Pres.	# Bottles	ABC	D E F G H I J Hold
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<b>2</b> MW-2			Nater Mater	$\vdash$	7		
3 MW-3	i de la companya del companya de la companya del companya de la companya del la companya de la c	7	XX Water	-	4	       	
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e MS	and the state of t	21/2/2	47 Water	<del> </del>	N	1	
7 MSD		-	1545 Water		Ja,	X	
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Sampler(s) Please Print & Sign	7/// 0 00 10 10 10 10 10 10 10 10 10 10 10 1	Shipment Met		Required Turnaround Time; (Check Box)	nd Tine; (C	neck Box) Other	
Relinquipred Mr.	production with the production of the production	Time: Received by:	ved by:	Std 10 WK Days		S VVK Days 2 WK D	(Days) [   24Heim
Relinquished Try.	10/0/	Time:	od by (Caboratory	A CONTRACTOR OF THE CONTRACTOR	329.94	Codier ID Coole	One Box Below)
Logged by (Laboratory):	/ / 9   °	Time: Chec	Checked by (Laboratory):	<b>.</b>			Level II Sid OC/Raw Data TRRP CheckList
Preservative Key: 1-HCI	1-HCI 2-HNO, 3-H-SO, 4-NaOH 5-Na,S <sub>2</sub> O, 6-NaHSO, 7-Other 8-4°C	IOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6	-NaHSO, 7-	Other 8-4°C	9-5035		Level IV SW846/CLP
Note: 1. Any change	Note: 1. Any changes must be made in writing once samples and	mlee and COC Form base been	othersition to AIC Pro	Treironmental			CHAPTER SIZE AND ALCOHOLOGICAL CONTRACTOR OF THE

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditious stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Abs Enulronmental Custopy SEAL

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5856
Fax. +1 281 530 5887

Seal Broken By:

Custopy SEAL

Date: 1/2 Time: 1/

CR

Federal

SDR

Fodesci

· nelivery

161966 10/04 MWI FedEx® Saturday Delivery

161966 10/04 MW

FedEx Saturda

Appendix B
Historical Analytical Results

## APPENDIX B HISTORICAL DATA

## SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER BURTON FLATS BOOSTER STATION EDDY COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Chlorides (mg/l)	Comments
lew Mexico Water Quality	Sample Date	(mg/i)	(mg/i)	(mg/l)	(mg/i)	(mg/r)	Connectes
ontrol Commission		0.01 (mg/l)	0.75 (mg/l)	0.75 (mg/l)	0.62 (mg/l)	250*	
roundwater Standards							
MW-1	3-2008	1.4	0.0395	0.948		0.128	
MW-1	6-2008	2.75	0.054	2.17		0.232	
MW-1	9-2008	1.1	0.0375	0.845		0.131	
MW-1	12-2008	0.869	0.0385	0.581		0.0709	
MW-1	3-2009	0.288	0.0149	0.107		0.0395	
MW-1	5-2009	1.38	0.0705	0.175		0.065	
MW-1	9-2009	0.267	0.024	0.0332		0.0078	
MW-1	12-2009	0.819	0.088	0.0267		0.012	
MW-1	3-2010	0.726	0.0879	0.107		0.0278	
MW-3	3/29/2010	NS	NS	NS		NS	
MW-1	12/14/2011	0.140	0.0034	0.200	0.111	665	Duplicate sample collected
MW-1	4/26/2012	0.153	< 0.001	0.229	0.0073	584	
MW-1	6/20/2012	0.0967	<0.001	0.284	0.0474	651	Duplicate sample collected
MW-1	9/26/2012	0.0615	< 0.001	0.0803	0.0015	590	
MW-1	12/5/2012	0.020	0.17	<0.001	0.037	599	
MW-2	3/19/2008	NS	NS	NS	NS	NS	
MW-2	6/29/2008	NS	NS	NS	NS	NS	
MW-2	9/17/2008	NS	NS	NS	NS	NS	
MW-2	12/3/2008	NS	NS	NS	NS	NS	
MW-2	3/11/2009	NS	NS	NS	NS	NS	
MW-2	5/19/2009	NS	NS	NS	NS	NS	
MW-2	9/23/2009	NS	NS	NS	NS	NS	
MW-2	12/20/2009	NS	NS	NS	NS	NS	
MW-2	3/22/2010	NS	NS	NS	NS	NS	
MW-5*	3/29/2010	NS	NS	NS	NS	NS	
MW-2	12/14/2011	<0.001	<0.001	< 0.001	< 0.003	1,170	
MW-2	4/26/2012	< 0.001	< 0.001	<0.001	<0.003	1,040	and the second s
MW-2	6/20/2012	<0.001	< 0.001	< 0.001	< 0.003	1,150	
MW-2	9/26/2012	< 0.001	< 0.001	< 0.001	< 0.003	1,130	
MW-2	12/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	1,120	Duplicate sample collected
MW 2	2/10/2009	NO	NG	NC	210	Mo	
MW-3	3/19/2008	NS	NS	NS	NS	NS	
MW-3 MW-3	6/29/2008 9/17/2008	NS NS	NS NS	NS NS	NS NS	NS NS	
MW-3		NS NS	NS	NS NS	NS	NS NS	
MW-3	12/3/2008 3/11/2009	NS	NS	NS NS	NS	NS NS	
MW-3	5/19/2009	NS	NS	NS	NS	NS	
MW-3	9/23/2009	NS NS	NS	NS NS	NS	NS NS	
MW-3	12/20/2009	NS NS	NS	NS	NS	NS NS	
MW-3	3/22/2010	NS	NS	NS	NS	NS	
MW-6*	3/29/2010	NS	NS	NS	NS	NS NS	
MW-3	12/14/2011	<0.001	<0.001	<0.001	<0.003	426	·
MW-3	4/26/2012	<0.001	<0.001	<0.001	<0.003	406	Duplicate sample collected
MW-3	6/20/2012	<0.001	<0.001	<0.001	<0.003	435	Dupitoate sample contected
MW-3	9/26/2012	<0.001	<0.001	0.00057	<0.003	447	Duplicate sample collected
MW-3	12/5/2012	<0.001	<0.001	<0.001	<0.003	444	Duplicate sample conceted
MW-4*	4/26/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4*	6/20/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4*	9/26/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4*	12/5/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	

## APPENDIX B HISTORICAL DATA

## SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER BURTON FLATS BOOSTER STATION EDDY COUNTY, NEW MEXICO

#### Notes:

- 1.) The environmental cleanup standards for water that are applicable to the Burton Flats Booster Station site are the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards.
- 2.) Data presented for all well locations includes previous four sampling events, when available.
- \* Chlorides are subject to the National Secondary Drinking Water Regulations (NSDWR) secondary maximum contaminant levels (SMCLs) and not an enforceably regulated constituent. The Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.

Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

LNAPL = Light Non-Aqueous Phase Liquid

NM = Not measured.

mg/L = milligrams per liter.