AP - 115

2012 AGWMR

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Annual Groundwater Monitoring and Remediation Report

January Through December 2012
Maljamar E&P
Maljamar, Lea County, New Mexico

Prepared for: ConocoPhillips Company

Conestoga-Rovers & Associates
2270 Springlake Road, Suite 800
Dallas, Texas 75234

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1.0 INTRODUCTION

On behalf of ConocoPhillips Company (COP), Conestoga-Rovers & Associates (CRA) is performing environmental and remedial project related activities at the Maljamar E&P site (Site). The Site is located in Lea County, New Mexico (Figure 1). The information in this report includes a brief review of previous Site activities, groundwater sampling data collected in July 2012, and groundwater extraction data collected from January through December 2012 during operation of the groundwater extraction well (EW-1) at the Site. The report presents the following in detail.

- Background information and Site characteristics
- Groundwater monitoring activities and results
- Summary and recommendations

2.0 BACKGROUND INFORMATION AND SITE HISTORY

The Site is located in Lea County, New Mexico (Sec 21, T17S, R32E; Figure 1). The Site is located west of a produced water release that was discovered on July 6, 2006. During previous investigative and remedial activities at the Site, a groundwater extraction well was installed, groundwater samples and water level data were collected, surface and borehole geophysical surveys were performed, an aquifer pump test was conducted, and a groundwater extraction well was installed and operated. The Site is assessed in conjunction with the Phillips 66 Maljamar Gas Plant. The following is a summary of those activities:

- An aquifer pump test was performed at the site in September 2003 to gather hydrogeologic data from the uppermost saturated zone, exhibiting chloride impacts, in order to develop a remediation plan. The data were also used to develop a water balance for the uppermost aquifer and an interpretive groundwater flow model to aid in estimating the effects of pumping a proposed well to be sited near wells SK-1 and MW-7.
- The results of the aquifer pump test and the magnetometer and borehole geophysical surveys were submitted to the NMOCD in the *Comprehensive Groundwater Report*, dated March 1, 2004 (Maxim, 2004a).
- A subsurface assessment report detailing the findings regarding the release of produced water was submitted to the NMOCD on November 10, 2006 (Tetra Tech, 2006).
- Groundwater extraction well EW-1 was installed adjacent to monitoring well MW-12 in June 2007, and was developed in August 2007. Continuous groundwater extraction at EW-1 began in September 2007. Extracted groundwater from EW-1 is pumped into a flowline connected to off-site Maljamar Gas Plant extraction well MW-6. Installation details for EW-1 are discussed in the 2007 Annual Report dated March 21, 2008 (Tetra Tech, 2008).
- In December 2007, EW-1 was surveyed for location coordinates and elevation of top of casing.
- On behalf of Phillips 66, CRA assumed remedial oversight duties of the Site in August 2011. Monthly groundwater level measurements were recorded and an annual groundwater monitoring and sampling event was conducted.

3.0 SAMPLING METHODOLOGY AND ANALYTICAL RESULTS

3.1 GROUNDWATER SAMPLING METHODOLOGY

CRA performed groundwater monitoring activities on existing Site and off-site (Gas Plant) monitoring and recovery wells from January through December 2012. Activities included performing groundwater sampling and analyses in July 201 and collecting monthly groundwater level measurements at the Site and off-site monitoring wells.

Groundwater Level and Water Quality Data Collection

Monthly groundwater level measurements were recorded at the Site from January to December 2012. An oil/water interface probe was used to measure groundwater depth and check for the presence hydrocarbon in each of the monitor wells. Groundwater measurements proceeded from the cleanest wells to the wells containing hydrocarbons. These data, along with casing diameter and total depth information, were used to calculate the water volume in each monitor well. Before and after each use, the oil/water interface probe was cleaned with an Alconox®/de-ionized water solution and rinsed with de-ionized water.

Table 1 presents the well construction details for all the off-site monitoring and on-site remediation well installed at the Site. Groundwater and hydrocarbon depth measurements and elevations for January through December 2011 are summarized in Table 2. A summary of historical groundwater monitoring well gauging data is presented in Appendix B.

Groundwater Monitoring and Sampling

On July 18, 2012, groundwater samples were collected from extraction well EW-1 at the Site. Groundwater level measurements were recorded from each monitoring well at the Site to check for presence of hydrocarbon. During the July 2012 groundwater sampling event, the groundwater flow direction was predominately to the southeast at an approximate gradient of 0.0081 ft/ft to northeast and 0.0025 ft/ft to the southeast. A potentiometric groundwater surface elevation map is presented in Figure 3. Table 2 presents the groundwater gauging data for January through December 2012.

Following groundwater measurement activities water was purged and sampled utilizing hand bailing techniques. The wells were purged of three well volumes of groundwater prior to sample collection with single-use, polyethylene hand bailers suspended with new string. Disposable nitrile gloves were worn by sampling personnel and were changed at each well location.

Each sample was transferred to laboratory-provided containers that were subsequently sealed, labeled, and placed in an ice-cooled chest for storage and transport to Pace Analytical Services, Inc. in Lenexa, Kansas. Proper chain of custody documentation was maintained throughout the sampling, storage, and shipping process.

Groundwater Extraction and Hydrocarbon Recovery Operations

Groundwater extraction well EW-1 was operated continuously from January through December 2012. Extracted groundwater was pumped from the well to a flowline connected with off-site extraction well MW-6 and then continued to the off-site 210 barrel (bbl) fluid storage tank. The fluid storage tank is fitted with automated tank gauging and pumping controls and automatically injects the tank contents into MCA Station water flood system. A dedicated flowmeter, installed on the extraction well piping system, gauges the volume of groundwater removed by the extraction well. Since initial startup on September 17, 2007 to December 13, 2012, approximately 164965 gallons of groundwater have been extracted from EW-1. Table 4 presents a summary of the groundwater extraction well recovery volumes at EW-1.

3.2 GROUNDWATER ANALYTICAL RESULTS

During the July 2012 sampling event, groundwater samples collected from extraction well EW-1 were submitted to Pace Analytical Services, Inc. of Lenexa, Kansas for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260; semi-volatile organic compounds-polynuclear aromatic hydrocarbons (PAHs) by Method 8270; calcium, magnesium, sodium, and potassium by Method 6010B; bromide, chloride, nitrate, and sulfate by Method 300.0A; total dissolved solids (TDS) by Method 160.1; and alkalinity (carbonate, bicarbonate, and total) by Method 310.1. The analytical results have been summarized and are presented in Table 3. Analytical results were compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards contained in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC).

The following results were noted from the July 2012 annual groundwater sampling event:

- Chloride was detected above the NMWQCC standard (250 mg/L) in EW-1 at 26,500 mg/L.

- Sulfate was detected above the NMWQCC standard (600 mg/L) in EW-1 at 746 mg/L.
- TDS was detected above the NMWQCC standard (1,000 mg/L) in EW-1 at 59,600 mg/L.

Groundwater analytical data is summarized in Table 3. Analytical results for chloride and TDS for July 2012 are presented in Figure 4. Concentration maps for chloride are presented as Figures 5. The laboratory groundwater analytical report is presented as Appendix A. A concentration vs. volume graph for EW-1 is presented in Appendix C.

4.0 GROUNDWATER REMEDIAL ACTIVITIES

CRA performed groundwater remedial activities on existing Site and off-site (Gas Plant) monitoring and recovery wells from January through December 2012. Activities included operating groundwater extraction well EW-1 and collecting periodic water quality data during the operation of extraction well EW-1.

Groundwater Extraction and Hydrocarbon Recovery Operations

Groundwater extraction well EW-1 was operated continuously from January through December 2012. Extracted groundwater was pumped from the well to a flowline connected with off-site extraction well MW-6 and then continued to the off-site 210 barrel (bbl) fluid storage tank. The fluid storage tank is fitted with automated tank gauging and pumping controls and automatically injects the tank contents into MCA Station water flood system. A dedicated flowmeter, installed on the extraction well piping system, gauges the volume of groundwater removed by the extraction well. Since initial startup on September 17, 2007 to December 13, 2012, approximately 164965 gallons of groundwater have been extracted from EW-1. Table 4 presents a summary of the groundwater extraction well recovery volumes at EW-1.

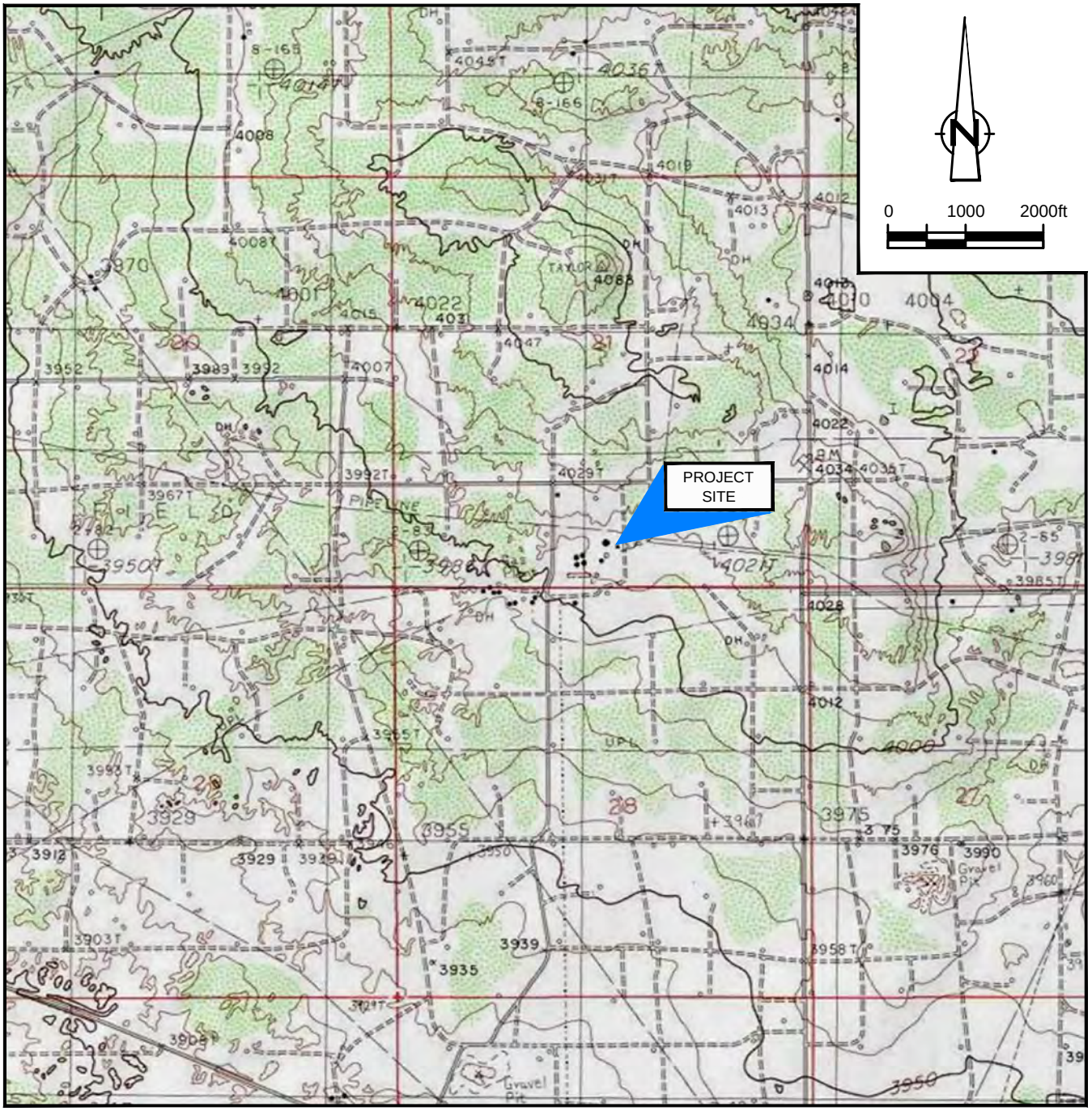
5.0 SUMMARY AND RECOMMENDATIONS

Results of the July 2012 groundwater sampling event show concentrations of chloride, sulfate, and TDS exceeded NMWQCC standards in EW-1 at the Site.

Based on the data, results and evaluations presented in this report, CRA recommends the following:

- Continue operation of groundwater extraction well EW-1.
- Annual groundwater monitoring and sampling at the Site. Groundwater samples will be collected and submitted to an analytical laboratory for analyses of volatile organic compounds, semi-volatile organic compounds, major ions, total dissolved solids, and chloride.

FIGURES



SOURCE: USGS 7.5 MINUTE QUAD
"MALJAMAR, NEW MEXICO"

LAT/LONG: 32.8153ÁNORTH, 103.7719ÁWEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 1

SITE LOCATION MAP
MALJAMAR E&P
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

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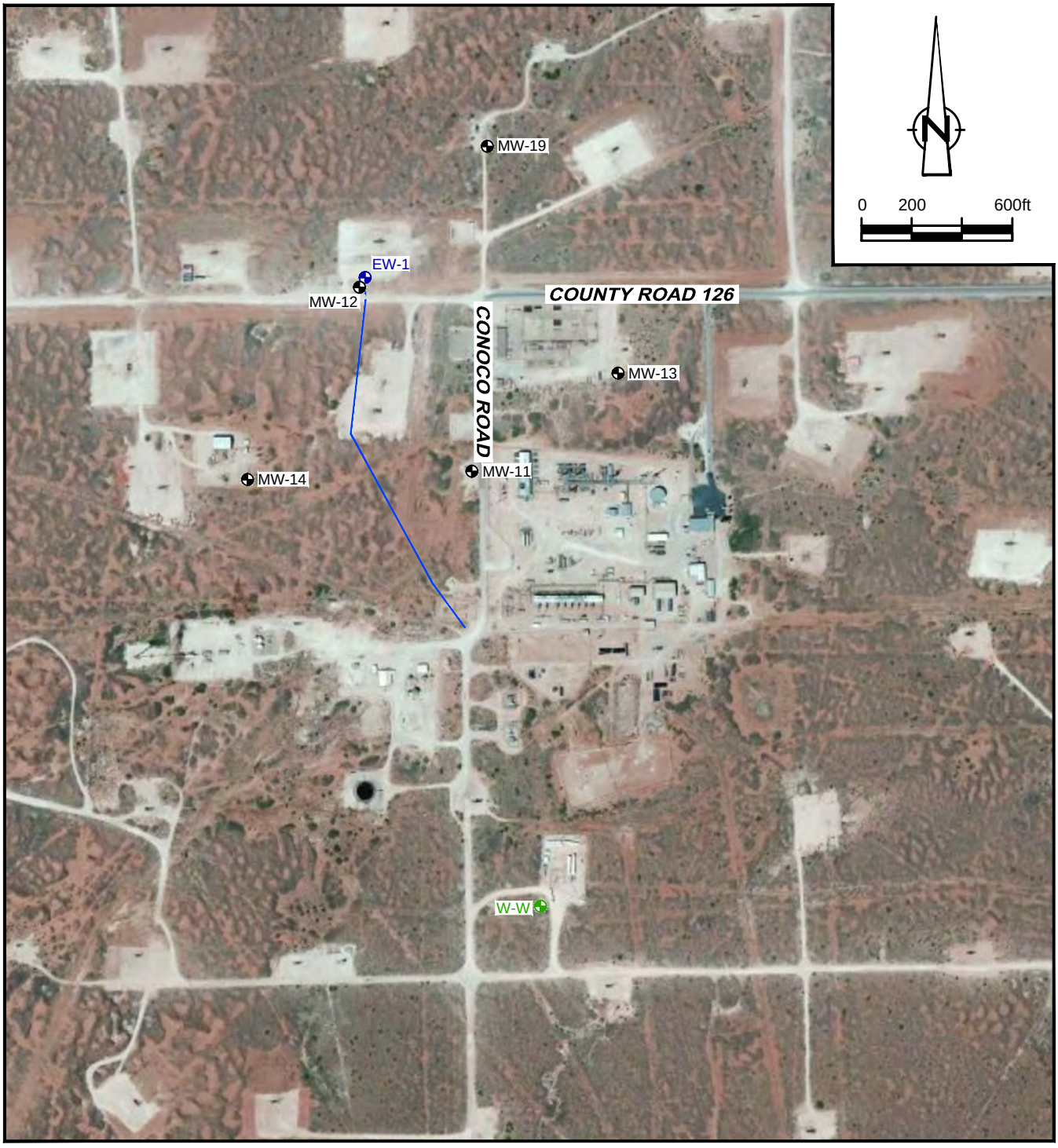

LEGEND
Off-Site Monitoring Well Location
Extraction Well Location
Water Well Location
Produced Water Line

LAT/LONG: 32.8153ÁNORTH, 103.7719ÁWEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 2

SITE PLAN MAP
MALJAMAR E&P
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

075019-00(004)GN-DL001 OCT 30/2012

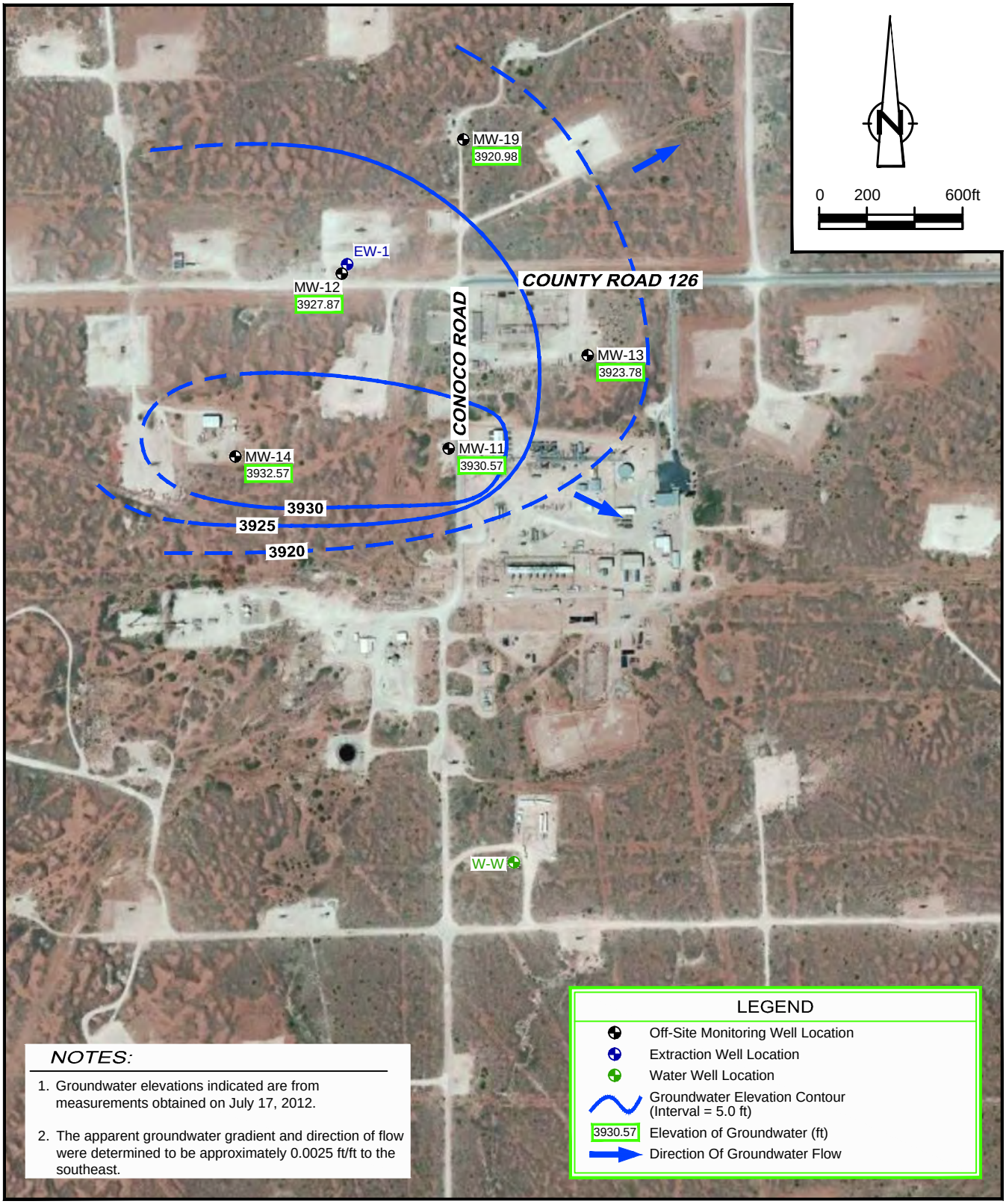

figure 3

GROUNDWATER GRADIENT MAP - JULY 2012
MALJAMAR E&P
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

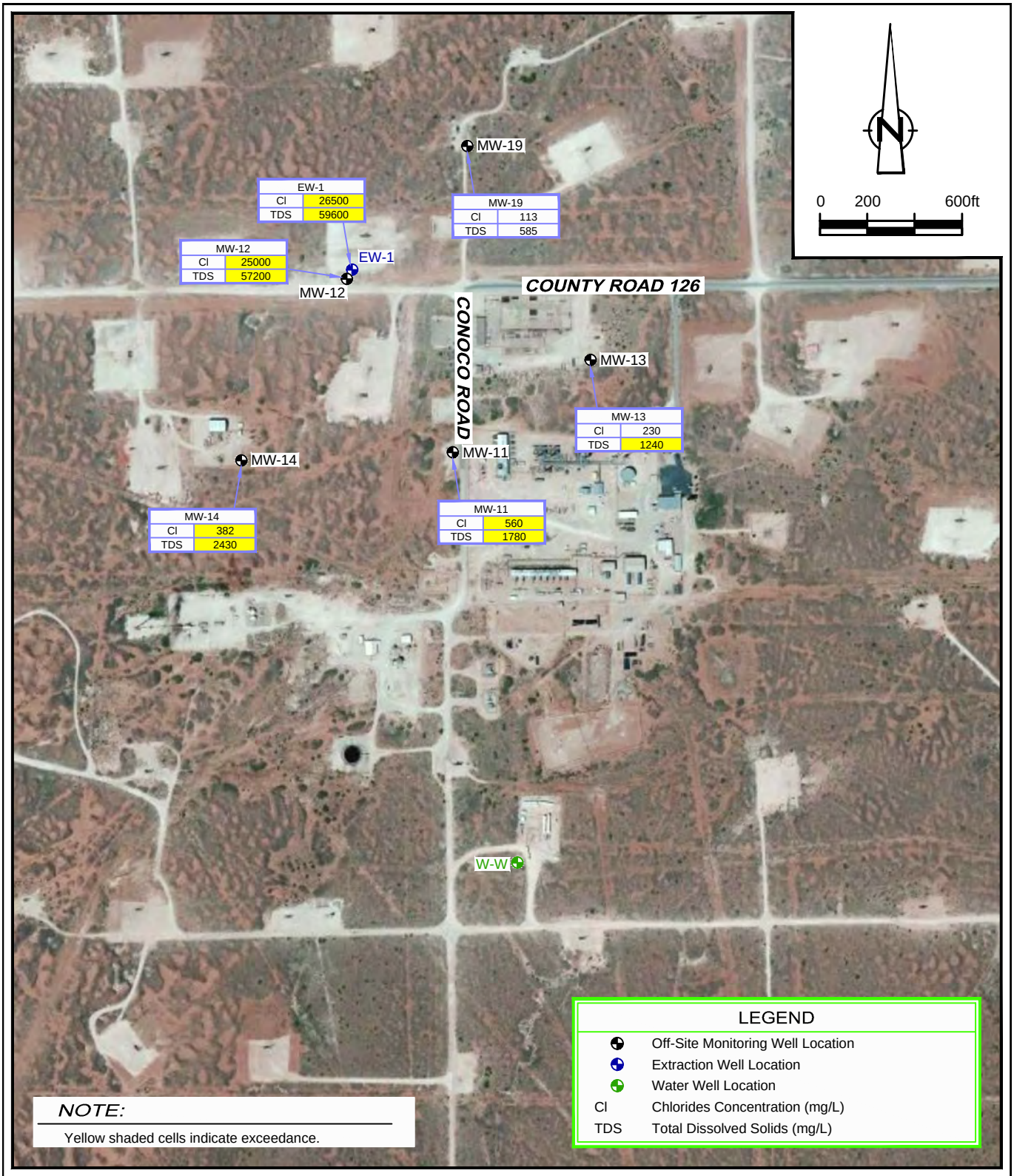

figure 4

GROUNDWATER ANALYTICAL RESULTS - CHLORIDE & TDS - JULY 2012
MALJAMAR E&P
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

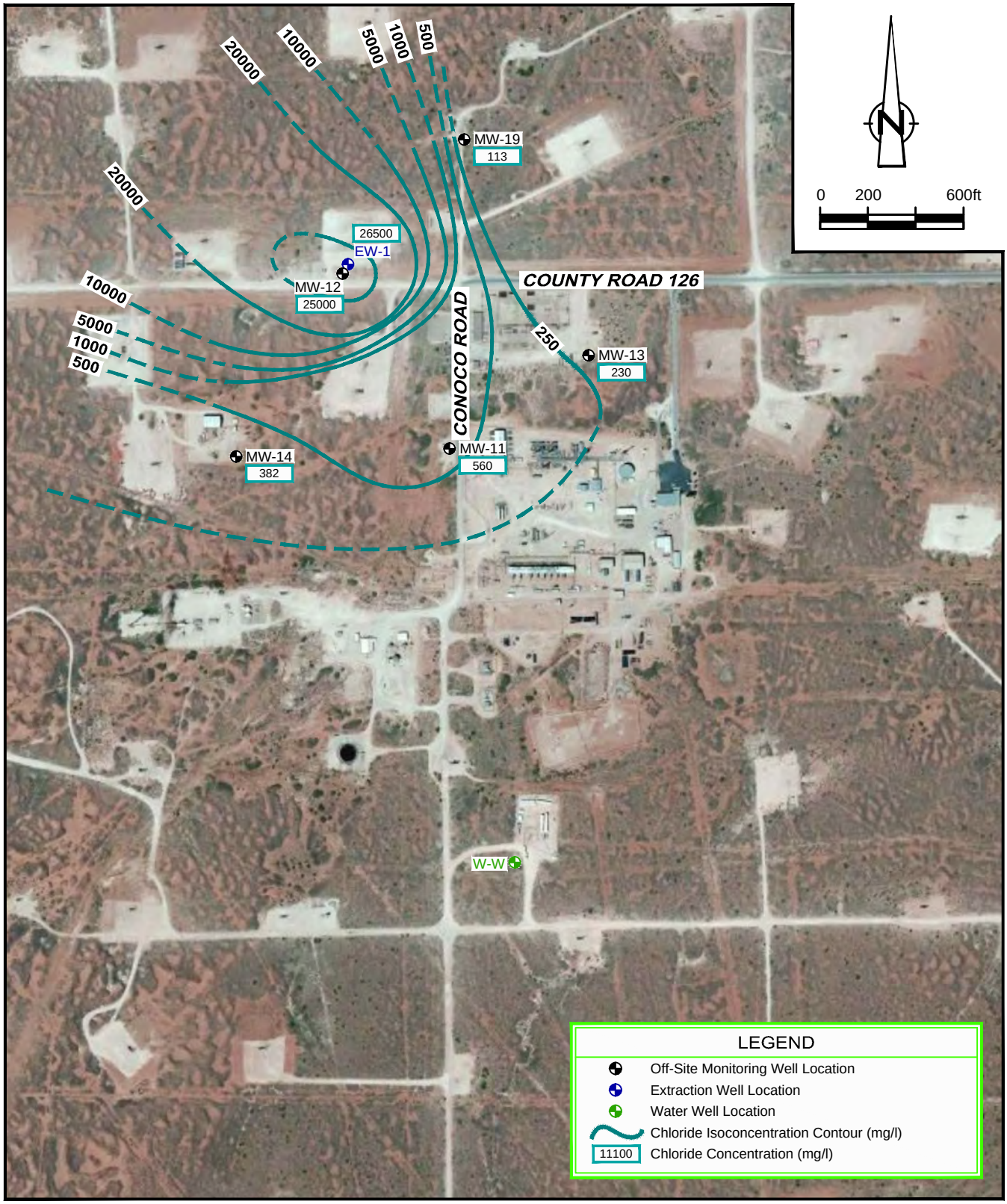

figure 5

CHLORIDE CONCENTRATION MAP - JULY 2012
MALJAMAR E&P
LEA COUNTY, NEW MEXICO
ConocoPhillips Company

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TABLES

TABLE 1

WELL CONSTRUCTION DETAILS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Monitoring Well Number	*Location Coordinates***		*Top of Casing Elevation (famsl)*	*Depth*				*Screen Interval (fbgs)*	*Screen Slot Size*** (inches)*	*Casing Diameter (inches)*	*Well Installation Date*
	Northing	*Easting*		*Total (fbgs)*	*Casing (fbgs)*	*Water (fbgs)*	*Condensate (fbgs)*				
EW-1	32.8165	-103.77452	4022.04	125	0-95	92.58		95-125	0.020	6	05/15/2007
Off-Site Wells											
MW-11	32.81442	-103.77314	4015.54	120	0-98	83.46		98-118	0.010	2	12/04/2001
MW-12*	32.81646	-103.77455	4022.53	120	0-99	94.39		99-119	0.010	2	12/04/2001
MW-13	32.81547	-103.77128	4031.96	127	0-105	106.68		105-125	0.010	2	12/03/2001
MW-14	32.81436	-103.77603	4006.98	120	0-80	75.00		80-100	0.010	4	03/20/2002
MW-19	32.81796	-103.77289	4037.34	120	0-98	117.23		98-118	0.010	2	09/17/2002

Notes:
famsl = feet above mean sea level
fbgs = feet below ground surface
Blank Fields Indicate No Data
* Wells re-surveyed for location and elevation of top of casing on 12/21/07
** Section 21, T-17-S, R-32-E, New Mexico Principal Meridian
*** Schedule 40 PVC

TABLE 2

WATER LEVEL MEASUREMENTS JANUARY THROUGH DECEMBER 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
EW-1	01/31/12	4022.04						
	02/29/12	4022.04						
	03/08/11	4022.04						
	03/27/12	4022.04						
	04/18/12	4022.04						
	05/21/12	4022.04						
	07/17/12	4022.04						
	08/21/12	4022.04						
	09/17/12	4022.04						
	12/13/12	4022.04						
Off-Site Wells								
MW-11	01/31/12	4015.54	84.77		0.00	0.00	84.77	3930.77
	02/29/12	4015.54	84.81		0.00	0.00	84.81	3930.73
	03/27/12	4015.54	84.85		0.00	0.00	84.85	3930.69
	04/18/12	4015.54	84.91		0.00	0.00	84.91	3930.63
	05/21/12	4015.54	85.15		0.00	0.00	85.15	3930.39
	07/17/12	4015.54	84.97		0.00	0.00	84.97	3930.57
	08/21/12	4015.54	84.97		0.00	0.00	84.97	3930.57
	09/17/12	4015.54	84.83		0.00	0.00	84.83	3930.71
	12/13/12	4015.54	85.15		0.00	0.00	85.15	3930.39
MW-12	01/31/12	4022.53	97.73		0.00	0.00	97.73	3924.80
	02/29/12	4022.53	97.83		0.00	0.00	97.83	3924.70
	03/27/12	4022.53	97.78		0.00	0.00	97.78	3924.75
	04/18/12	4022.53	97.80		0.00	0.00	97.80	3924.73
	05/21/12	4022.53	98.02		0.00	0.00	98.02	3924.51
	07/17/12	4022.53	94.66		0.00	0.00	94.66	3927.87
	08/21/12	4022.53	97.65		0.00	0.00	97.65	3924.88
	09/17/12	4022.53	97.62		0.00	0.00	97.62	3924.91
	12/13/12	4022.53	97.87		0.00	0.00	97.87	3924.66
MW-13	01/31/12	4031.96	108.14		0.00	0.00	108.14	3923.82
	02/29/12	4031.96	108.06		0.00	0.00	108.06	3923.90
	03/27/12	4031.96	108.05		0.00	0.00	108.05	3923.91
	04/18/12	4031.96	108.12		0.00	0.00	108.12	3923.84
	05/21/12	4031.96	108.36		0.00	0.00	108.36	3923.60
	07/17/12	4031.96	108.18		0.00	0.00	108.18	3923.78
	08/21/12	4031.96	108.21		0.00	0.00	108.21	3923.75
	09/17/12	4031.96	108.08		0.00	0.00	108.08	3923.88
	12/13/12	4031.96	108.40		0.00	0.00	108.40	3923.56
MW-14	01/31/12	4006.98	74.05		0.00	0.00	74.05	3932.93
	02/29/12	4006.98	74.12		0.00	0.00	74.12	3932.86
	03/27/12	4006.98	74.05		0.00	0.00	74.05	3932.93
	04/18/12	4006.98	74.23		0.00	0.00	74.23	3932.75
	05/21/12	4006.98	74.49		0.00	0.00	74.49	3932.49
	07/17/12	4006.98	74.41		0.00	0.00	74.41	3932.57
	08/21/12	4006.98	74.46		0.00	0.00	74.46	3932.52
	09/17/12	4006.98	74.36		0.00	0.00	74.36	3932.62
	12/13/12	4006.98	74.26		0.00	0.00	74.26	3932.72

WATER LEVEL MEASUREMENTS JANUARY THROUGH DECEMBER 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Casing Elevation (ft)*	*Depth to Water (ft)*	*Depth to L.P.H. (ft)*	*L.P.H. Thickness (ft)*	*L.P.H. Thickness X (ft)*	*Adjusted Depth to Water (ft)*	*Groundwater Elevation (ft)*
MW-19	01/31/12	4037.34	116.35		0.00	0.00	116.35	3920.99
	02/29/12	4037.34	116.39		0.00	0.00	116.39	3920.95
	03/27/12	4037.34	116.30		0.00	0.00	116.30	3921.04
	04/18/12	4037.34	116.39		0.00	0.00	116.39	3920.95
	05/21/12	4037.34	116.54		0.00	0.00	116.54	3920.80
	07/17/12	4037.34	116.36		0.00	0.00	116.36	3920.98
	08/21/12	4037.34	116.33		0.00	0.00	116.33	3921.01
	09/17/12	4037.34	116.25		0.00	0.00	116.25	3921.09
	12/13/12	4037.34	116.42		0.00	0.00	116.42	3920.92

Notes:
L.P.H. = Liquid Phase Hydrocarbon
Blank Fields Indicate No Data
ft - feet

TABLE 3

GROUNDWATER ANALYTICAL RESULTS SUMMARY - 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Parameters (mg/L)	*EW-1* *July 2012*	*NM WQ Std*	*Off-Site Wells* *MW-11* *July 2012*	*MW-12* *July 2012*	*MW-13* *July 2012*	*MW-14* *July 2012*	*MW-19* *July 2012*
Total Metals							
Calcium	**2,450**		**215**	**3,420**	**252**	**455**	**422**
Magnesium	**748**		**64.2**	**812**	**53.4**	**137**	**50.3**
Potassium	**67.6**		**3.6**	**56.50**	**6.24**	**9**	8.67
Sodium	**13,000**		**80.6**	**11,400**	**71.5**	**49.80**	**49.4**
Volatile Organic Compounds							
Benzene	<0.001	0.01	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	0.75	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	0.75	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes (total)	<0.003	0.62	<0.003	<0.003	<0.003	<0.003	<0.003
Semivolatile Organic Compounds							
1-Methylnaphthalene	---	0.03	---	---	---	---	---
2-Methylnaphthalene	---	0.03	**---**	---	---	---	---
Acenaphthene	<0.001		**0.0001**	<0.0001	**0.00012**	<0.0001	**0.00066**
Acenaphthylene	<0.001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Anthracene	<0.001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzo(a)anthracene	<0.001		**0.00013**	<0.0001	**0.00075**	<0.0001	<0.0001
Benzo(a)pyrene	<0.001	0.0007	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzo(b)fluoranthene	<0.001		<0.0001	<0.0001	0.00055	<0.0001	<0.0001
Benzo(g,h,i)perylene	<0.001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzo(k)fluoranthene	<0.001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chrysene	<0.001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dibenz(a,h)anthracene	<0.001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dibenzofuran	---		---	---	---	---	---
Fluoranthene	**0.00012**		**0.00024**	<0.0001	**0.0011**	<0.0001	**0.00026**
Fluorine	<0.0001		<0.0001	<0.0001	**0.00014**	<0.0001	**0.00051**
Indeno(1,2,3-cd)pyrene	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Naphthalene	<0.0005	0.03	<0.0005	<0.0005	**0.0037**	<0.0005	**0.0429**
Phenanthrene	<0.0005		<0.0005	<0.0005	**<0.0005**	<0.0005	**0.00064**
Pyrene	<0.0001		**0.00015**	<0.0001	**0.00055**	<0.0001	**0.00012**
Inorganic Analysis							
Carbonate Alkalinity	<20		<20	<20	<20	<20	<20
Bicarbonate Alkalinity	**108**		**144**	**122**	**340**	**314**	**635**
Total Alkalinity	**108**		**144**	**122**	**340**	**314**	**635**
Bromide	**38**		**4.1**	**32.6**	**2.4**	**1.1**	**1.4**
Chloride	**26,500**	250	**560**	**25,000**	**230**	**382**	**113**
Nitrate as N	**6.10**	10	**7.3**	**3.30**	**15.2**	**16.0**	**2.6**
Sulfate	**746**	600	**55.3**	**716**	**239**	**812.0**	**27.8**
Total Dissolved Solids	**59,600**	1,000	**1,780**	**57,200**	**1,240**	**2,430**	**585**

Notes:
mg/L = milligrams per liter
< = Not detected at or above laboratory reporting limits.
Detected results are bolded.
NM WQ Std = New Mexico Water Quality Standard
* QA = Field duplicate sample analyses for evaluation of laboratory quality assurance/quality control (QA/QC) procedures.
---' indicates no data.

EW-1 EXTRACTION WELL RECOVERY VOLUMES
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Date	*Time*	*Total Days*	*Flowmeter Reading*	*Gallons Per Reading*	*Cumulative Gallons*	*Gallons Per Pumping Cycle*	*Gallons Per Minute*	*Comments*
09/17/07	9:30	0	0.00					Start pumping EW-1
09/17/07	12:05	0	187.10	187.10	187.10		1.21	
10/16/07	8:42	29	3,793.00	3,605.90	3,793.00		0.09	
10/16/07	9:20	29	3,813.70	20.70	3,813.70	20.70	0.54	Check pump cycle volume
11/20/07	8:43	64	7,671.50	3,857.80	7,671.50		0.08	
12/21/07	8:20	95	9,925.80	2,254.30	9,925.80		0.05	
12/21/07	8:51	95	9,945.20	19.40	9,945.20	19.40	0.63	Check pump cycle volume
02/27/08	8:55	163	16,656.70	6,711.50	16,656.70		0.07	
02/27/08	10:55	163	16,674.40	17.70	16,674.40	17.70	0.57	Check pump cycle volume
03/12/08	9:20	177	18,031.50	1,357.10	18,031.50		0.07	
03/12/08	10:40	177	18,031.50	0.00	18,031.50		0.00	Pump off
03/25/08	9:38	190	19,339.20	1,307.70	19,339.20		0.07	
03/25/08	10:25	190	19,339.20	0.00	19,339.20		0.00	Pump off
04/29/08	8:55	225	22,760.20	3,421.00	22,760.20		0.07	
04/29/08	9:25	225	22,779.90	19.70	22,779.90	19.70	0.64	Check pump cycle volume
05/05/08	13:49	231	23,368.50	588.60	23,368.50		0.07	
06/10/08	8:50	267	26,631.70	3,263.20	26,631.70		0.06	
06/10/08	9:35	267	26,631.70	0.00	26,631.70		0.00	Pump off
07/15/08	9:13	302	29,908.90	3,277.20	29,908.90		0.07	
07/15/08	9:57	302	29,908.90	0.00	29,908.90		0.00	Pump off
08/19/08	9:06	337	33,081.00	3,172.10	33,081.00		0.06	
08/19/08	9:52	337	33,081.00	0.00	33,081.00		0.00	Pump off
09/16/08	9:25	365	35,767.90	2,686.90	35,767.90		0.07	
09/16/08	11:36	365	35,767.90	0.00	35,767.90		0.00	Pump off
10/15/08	9:25	394	38,521.00	2,753.10	38,521.00		0.07	
10/15/08	12:46	394	38,537.90	16.90	38,537.90	16.90	0.55	Check pump cycle volume
11/12/08	9:09	422	41,178.20	2,640.30	41,178.20		0.07	
11/12/08	10:15	422	41,178.20	0.00	41,178.20		0.00	Pump off
12/11/08	9:03	451	43,872.10	2,693.90	43,872.10		0.06	
12/11/08	9:32	451	43,872.10	0.00	43,872.10		0.00	Pump off
01/13/09	9:22	484	44,259.00	386.90	44,259.00		0.01	
02/11/09	9:23	513	46,847.80	2,588.80	46,847.80		0.06	
02/11/09	9:47	513	46,847.80	0.00	46,847.80		0.00	Pump off
03/10/09	9:23	540	49,402.60	2,554.80	49,402.60		0.07	
04/13/09	10:39	574	52,700.70	3,298.10	52,700.70		0.07	
05/01/09	10:45	592	54,729.60	2,028.90	54,729.60		0.08	
06/08/09	10:26	630	58,041.90	3,312.30	58,041.90		0.06	
07/13/09	10:25	665	61,432.10	3,390.20	61,432.10		0.07	
08/10/09	10:03	693	64,147.10	2,715.00	64,147.10		0.07	
09/15/09	10:46	729	67,601.50	3,454.40	67,601.50		0.07	Power off f/ electrical & piping repairs
10/07/09	10:00	751	67,601.50	0.00	67,601.50		0.00	Re-start pump after repairs
11/09/09	10:00	784	71,018.60	3,417.10	71,018.60		0.04	
11/09/09	10:37	784	71,031.90	13.30	71,031.90	13.30	0.36	Check pump cycle volume
12/23/09	11:06	828	75,256.10	4,224.20	75,256.10		0.07	
01/20/10	10:24	856	77,800.50	2,544.40	77,800.50		0.06	
02/09/10	10:52	876	79,708.50	1,908.00	79,708.50		0.07	
03/09/10	9:55	904	82,397.30	2,688.80	82,397.30		0.07	
04/12/10	10:11	938	85,673.80	3,276.50	85,673.80		0.07	
05/24/10	10:31	980	89,679.00	4,005.20	89,679.00		0.07	
06/14/10	10:30	1001	91,603.10	1,924.10	91,603.10		0.06	
07/20/10	10:18	1037	95,002.00	3,398.90	95,002.00		0.07	
08/11/10	9:52	1059	97,087.30	2,085.30	97,087.30		0.07	
09/21/10	11:16	1100	100,951.00	3,863.70	100,951.00		0.07	
10/20/10	10:20	1129	103,693.70	2,742.70	103,693.70		0.07	
11/08/10	10:12	1148	105,505.00	1,811.30	105,505.00		0.07	
12/07/10	10:46	1177	108,229.50	2,724.50	108,229.50		0.07	
01/18/11	10:01	1219	112,096.20	3,866.70	112,096.20		0.06	
02/08/11	9:06	1240	113,676.10	1,579.90	113,676.10		0.05	
03/08/11	9:15	1268	113,676.10	0.00	113,676.10		0.00	pump off f/ repairs to tank
04/13/11	10:20	1304	113,676.10	0.00	113,676.10		0.00	pump off f/ repairs to tank
05/24/11	9:00	1345	113,719.00	42.90	113,719.00		0.00	sample well
06/28/11	8:46	1380	117,263.60	3,544.60	117,263.60		0.07	
07/19/11	9:51	1401	119,333.50	2,069.90	119,333.50		0.07	

TABLE 4

EW-1 EXTRACTION WELL RECOVERY VOLUMES
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Date	*Time*	*Total Days*	*Flowmeter Reading*	*Gallons Per Reading*	*Cumulative Gallons*	*Gallons Per Pumping Cycle*	*Gallons Per Minute*	*Comments*
08/31/11	9:00	1444	123,519.00	4,185.50	123,519.00		0.07	
09/27/11	11:45	1471	126,139.80	2,620.80	126,139.80		0.07	
10/21/11	13:00	1495	128,444.70	2,304.90	128,444.70		0.07	
11/29/11	11:50	1534	131,888.40	3,443.70	131,888.40		0.06	
12/23/11	14:00	1558	133,994.00	2,105.60	133,994.00		0.06	
01/31/12	15:00	1597	137,655.30	3,661.30	137,655.30		0.07	
02/29/12	16:00	1626	140,439.30	2,784.00	140,439.30		0.07	
03/27/12	17:00	1653	143,029.10	2,589.80	143,029.10		0.07	
04/18/12	15:00	1675	145,136.10	2,107.00	145,136.10		0.07	
05/21/12	15:00	1708	148,287.10	3,151.00	148,287.10		0.07	
07/17/12	15:00	1765	150,570.62	2,283.52	150,570.62		0.03	
08/21/12	21:00	1800	154,050.70	3,480.08	154,050.70		0.07	
09/17/12	14:25	1827	156,665.00	2,614.30	156,665.00		0.07	
10/12/12	14:00	1852	159,060.20	2,395.20	159,060.20		0.07	
11/20/12	9:00	1891	162,794.90	3,734.70	162,794.90		0.07	
12/13/12	15:00	1914	164,964.70	2,169.80	164,964.70		0.07	

APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL REPORTS – JULY 2012

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 09, 2012

Ken Horton
CRA
2135 South Loop, 250 West
Midland, TX 79703

RE: Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Dear Ken Horton:
Enclosed are the analytical results for sample(s) received by the laboratory on July 20, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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(913)599-5665

SAMPLE SUMMARY

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60125567001	**MW-2-071812**	Water	07/18/12 16:30	07/20/12 08:30
60125567002	**MW-3-071812**	Water	07/18/12 17:30	07/20/12 08:30
60125567003	**MW-4-071812**	Water	07/18/12 15:50	07/20/12 08:30
60125567004	**MW-8-071812**	Water	07/18/12 13:50	07/20/12 08:30
60125567005	**MW-9-071812**	Water	07/18/12 16:55	07/20/12 08:30
60125567006	**MW-10-071812**	Water	07/18/12 15:20	07/20/12 08:30
60125567007	**MW-11-071812**	Water	07/18/12 15:00	07/20/12 08:30
60125567008	**MW-12-071812**	Water	07/18/12 14:15	07/20/12 08:30
60125567009	**MW-13-071812**	Water	07/18/12 13:40	07/20/12 08:30
60125567010	**MW-14-071812**	Water	07/18/12 17:00	07/20/12 08:30
60125567011	**MW-15-071812**	Water	07/18/12 13:00	07/20/12 08:30
60125567012	**MW-16-071812**	Water	07/18/12 12:45	07/20/12 08:30
60125567013	**MW-17-071812**	Water	07/18/12 12:15	07/20/12 08:30
60125567014	**MW-18-071812**	Water	07/18/12 12:00	07/20/12 08:30
60125567015	**MW-19-071812**	Water	07/18/12 13:50	07/20/12 08:30
60125567016	**MW-20-071812**	Water	07/18/12 11:40	07/20/12 08:30
60125567017	**EW-1-071812**	Water	07/18/12 14:20	07/20/12 08:30
60125567018	**WW-071812**	Water	07/18/12 18:00	07/20/12 08:30
60125567019	**TRIPS**	Water	07/18/12 00:00	07/20/12 08:30

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SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60125567001	**MW-2-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567002	**MW-3-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	HNS, JDM, RNS	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567003	**MW-4-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM, RNS	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567004	**MW-8-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	HNS, RNS	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567005	**MW-9-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	HNS, RNS	9

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SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567006	**MW-10-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM, RNS	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567007	**MW-11-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM, RNS	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567008	**MW-12-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM, RNS	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567009	**MW-13-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567010	**MW-14-071812**	EPA 6010	SMW	4

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SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567011	**MW-15-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567012	**MW-16-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567013	**MW-17-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567014	**MW-18-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1

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SAMPLE ANALYTE COUNT

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567015	**MW-19-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567016	**MW-20-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567017	**EW-1-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567018	**WW-071812**	EPA 6010	SMW	4
		EPA 8270	JMT	5
		EPA 8270C by SIM	BRM	19
		EPA 8260	JDM	9
		SM 2320B	PWH	3
		SM 2540C	NDL	1
		EPA 300.0	OL	3
		EPA 353.2	KLB	1
60125567019	**TRIPS**	EPA 8260	JDM	9

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **EPA 6010**
Description: 6010 MET ICP
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
18 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/18823

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60125567018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1033787)
  - Calcium
- MSD (Lab ID: 1033788)
  - Calcium

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **EPA 8270**
Description: 8270 MSSV DRO/ORO
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
18 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/10695

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
18 samples were analyzed for EPA 8270C by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: OEXT/34122

IO: The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.

- BLANK (Lab ID: 1033733)
  - Nitrobenzene-d5 (S)
- EW-1-071812 (Lab ID: 60125567017)
  - Nitrobenzene-d5 (S)
- MW-11-071812 (Lab ID: 60125567007)
  - Nitrobenzene-d5 (S)
- MW-12-071812 (Lab ID: 60125567008)
  - Nitrobenzene-d5 (S)
- MW-13-071812 (Lab ID: 60125567009)
  - Nitrobenzene-d5 (S)
- MW-14-071812 (Lab ID: 60125567010)
  - Nitrobenzene-d5 (S)
- MW-15-071812 (Lab ID: 60125567011)
  - Nitrobenzene-d5 (S)
- MW-19-071812 (Lab ID: 60125567015)
  - Nitrobenzene-d5 (S)
- WW-071812 (Lab ID: 60125567018)
  - Nitrobenzene-d5 (S)

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: COP_CRA Midland, TX
Date: August 09, 2012

QC Batch: OEXT/34122

S0: Surrogate recovery outside laboratory control limits.
- LCS (Lab ID: 1033734)
  - 2-Fluorobiphenyl (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- EW-1-071812 (Lab ID: 60125567017)
  - Terphenyl-d14 (S)
- MW-11-071812 (Lab ID: 60125567007)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
19 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.
- MW-20-071812 (Lab ID: 60125567016)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/47280
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/47316
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/47360
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Batch Comments:

- QC Batch: MSV / 47317

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
18 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
18 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
18 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/21081

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12-071812 (Lab ID: 60125567008)
  - Bromide

QC Batch: WETA/21082

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-18-071812 (Lab ID: 60125567014)
  - Bromide

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PROJECT NARRATIVE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP_CRA Midland, TX
Date: August 09, 2012

General Information:
18 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-2-071812 **Lab ID: 60125567001** Collected: 07/18/12 16:30 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**344000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:21	7440-70-2	
Magnesium	**58000**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:21	7439-95-4	
Potassium	**5020**	ug/L	500	1	07/24/12 11:30	07/30/12 14:21	7440-09-7	
Sodium	**69400**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:09	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 09:59		
TPH-DRO	**20.5**	mg/L	1.0	1	07/24/12 00:00	07/25/12 09:59		
Surrogates								
Nitrobenzene-d5 (S)	175	%	21-189	1	07/24/12 00:00	07/25/12 09:59	4165-60-0	
2-Fluorobiphenyl (S)	94	%	34-180	1	07/24/12 00:00	07/25/12 09:59	321-60-8	
Terphenyl-d14 (S)	105	%	24-168	1	07/24/12 00:00	07/25/12 09:59	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	120-12-7	
Benzo(a)anthracene	**0.56**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	56-55-3	
Benzo(a)pyrene	**0.64**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	50-32-8	
Benzo(b)fluoranthene	**4.4**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	207-08-9	
Chrysene	**1.1**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	218-01-9	
Dibenz(a,h)anthracene	**0.28**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	53-70-3	
Fluoranthene	**1.6**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.95**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	193-39-5	
Naphthalene	**0.86**	ug/L	0.50	1	07/24/12 00:00	08/04/12 07:51	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/04/12 07:51	85-01-8	
Pyrene	**1.1**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:51	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	91	%	42-120	50	07/24/12 00:00	08/04/12 08:08	4165-60-0	
2-Fluorobiphenyl (S)	82	%	44-120	50	07/24/12 00:00	08/04/12 08:08	321-60-8	
Terphenyl-d14 (S)	122	%	46-131	50	07/24/12 00:00	08/04/12 08:08	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**48100**	ug/L	500	500		07/26/12 03:43	71-43-2	
Ethylbenzene	**741**	ug/L	500	500		07/26/12 03:43	100-41-4	
Toluene	**11900**	ug/L	500	500		07/26/12 03:43	108-88-3	
Xylene (Total)	ND	ug/L	1500	500		07/26/12 03:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	80-120	500		07/26/12 03:43	1868-53-7	
Toluene-d8 (S)	98	%	80-120	500		07/26/12 03:43	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120	500		07/26/12 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120	500		07/26/12 03:43	17060-07-0	
Preservation pH	**1.0**		1.0	500		07/26/12 03:43		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-2-071812 **Lab ID: 60125567001** Collected: 07/18/12 16:30 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**606**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**606**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1620**	mg/L	5.0	1		07/23/12 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**7.8**	mg/L	1.0	1		07/30/12 15:58	24959-67-9	
Chloride	**461**	mg/L	100	100		07/31/12 13:20	16887-00-6	
Sulfate	**2.8**	mg/L	1.0	1		07/30/12 15:58	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 12:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-3-071812 **Lab ID: 60125567002** Collected: 07/18/12 17:30 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**324000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:27	7440-70-2	
Magnesium	**72200**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:27	7439-95-4	
Potassium	**2820**	ug/L	500	1	07/24/12 11:30	07/30/12 14:27	7440-09-7	
Sodium	**115000**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:11	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 10:18		
TPH-DRO	**16.2**	mg/L	1.0	1	07/24/12 00:00	07/25/12 10:18		
Surrogates								
Nitrobenzene-d5 (S)	101	%	21-189	1	07/24/12 00:00	07/25/12 10:18	4165-60-0	
2-Fluorobiphenyl (S)	95	%	34-180	1	07/24/12 00:00	07/25/12 10:18	321-60-8	
Terphenyl-d14 (S)	101	%	24-168	1	07/24/12 00:00	07/25/12 10:18	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.12**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	120-12-7	
Benzo(a)anthracene	**0.91**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	56-55-3	
Benzo(a)pyrene	**0.79**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	50-32-8	
Benzo(b)fluoranthene	**5.5**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	205-99-2	
Benzo(g,h,i)perylene	**1.6**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	191-24-2	
Benzo(k)fluoranthene	**0.37**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	207-08-9	
Chrysene	**1.9**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	218-01-9	
Dibenz(a,h)anthracene	**0.23**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	53-70-3	
Fluoranthene	**3.4**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.2**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	193-39-5	
Naphthalene	**2.8**	ug/L	0.50	1	07/24/12 00:00	08/04/12 03:51	91-20-3	
Phenanthrene	**0.72**	ug/L	0.50	1	07/24/12 00:00	08/04/12 03:51	85-01-8	
Pyrene	**2.0**	ug/L	0.10	1	07/24/12 00:00	08/04/12 03:51	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	84	%	42-120	50	07/24/12 00:00	08/04/12 04:08	4165-60-0	
2-Fluorobiphenyl (S)	75	%	44-120	50	07/24/12 00:00	08/04/12 04:08	321-60-8	
Terphenyl-d14 (S)	105	%	46-131	50	07/24/12 00:00	08/04/12 04:08	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**17100**	ug/L	100	100		07/27/12 14:25	71-43-2	
Ethylbenzene	**338**	ug/L	50.0	50		07/27/12 01:42	100-41-4	
Toluene	**1930**	ug/L	50.0	50		07/27/12 01:42	108-88-3	
Xylene (Total)	**278**	ug/L	3.0	1		07/26/12 03:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	80-120	1		07/26/12 03:58	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		07/26/12 03:58	2037-26-5	
4-Bromofluorobenzene (S)	96	%	80-120	1		07/26/12 03:58	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		07/26/12 03:58	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 03:58		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-3-071812 **Lab ID: 60125567002** Collected: 07/18/12 17:30 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**357**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**357**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2300**	mg/L	5.0	1		07/23/12 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**7.5**	mg/L	1.0	1		07/30/12 16:16	24959-67-9	
Chloride	**672**	mg/L	100	100		07/31/12 13:37	16887-00-6	
Sulfate	**29.2**	mg/L	2.0	2		07/31/12 14:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 12:44		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-4-071812 **Lab ID: 60125567003** Collected: 07/18/12 15:50 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**182000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:29	7440-70-2	
Magnesium	**53700**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:29	7439-95-4	
Potassium	**7850**	ug/L	500	1	07/24/12 11:30	07/30/12 14:29	7440-09-7	
Sodium	**75100**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:13	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 10:37		
TPH-DRO	**2.1**	mg/L	1.0	1	07/24/12 00:00	07/25/12 10:37		
Surrogates								
Nitrobenzene-d5 (S)	104	%	21-189	1	07/24/12 00:00	07/25/12 10:37	4165-60-0	
2-Fluorobiphenyl (S)	86	%	34-180	1	07/24/12 00:00	07/25/12 10:37	321-60-8	
Terphenyl-d14 (S)	97	%	24-168	1	07/24/12 00:00	07/25/12 10:37	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.39**	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	206-44-0	
Fluorene	**0.36**	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	193-39-5	
Naphthalene	**125**	ug/L	0.50	1	07/24/12 00:00	08/04/12 08:25	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/04/12 08:25	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 08:25	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	82	%	42-120	50	07/24/12 00:00	08/04/12 08:42	4165-60-0	
2-Fluorobiphenyl (S)	73	%	44-120	50	07/24/12 00:00	08/04/12 08:42	321-60-8	
Terphenyl-d14 (S)	104	%	46-131	50	07/24/12 00:00	08/04/12 08:42	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**38.0**	ug/L	1.0	1		07/27/12 01:57	71-43-2	
Ethylbenzene	**59.6**	ug/L	1.0	1		07/27/12 01:57	100-41-4	
Toluene	ND	ug/L	1.0	1		07/27/12 01:57	108-88-3	
Xylene (Total)	**20.5**	ug/L	3.0	1		07/27/12 01:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	1		07/26/12 04:14	1868-53-7	
Toluene-d8 (S)	101	%	80-120	1		07/26/12 04:14	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		07/26/12 04:14	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120	1		07/26/12 04:14	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 04:14		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-4-071812 **Lab ID: 60125567003** Collected: 07/18/12 15:50 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**173**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**173**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1510**	mg/L	5.0	1		07/23/12 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**4.3**	mg/L	1.0	1		07/30/12 16:51	24959-67-9	
Chloride	**507**	mg/L	100	100		07/31/12 15:22	16887-00-6	
Sulfate	ND	mg/L	1.0	1		07/30/12 16:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 11:29		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-8-071812 **Lab ID: 60125567004** Collected: 07/18/12 13:50 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**232000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:32	7440-70-2	
Magnesium	**55200**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:32	7439-95-4	
Potassium	**2960**	ug/L	500	1	07/24/12 11:30	07/30/12 14:32	7440-09-7	
Sodium	**32400**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:15	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 10:55		
TPH-DRO	**13.0**	mg/L	1.0	1	07/24/12 00:00	07/25/12 10:55		
Surrogates								
Nitrobenzene-d5 (S)	94	%	21-189	1	07/24/12 00:00	07/25/12 10:55	4165-60-0	
2-Fluorobiphenyl (S)	92	%	34-180	1	07/24/12 00:00	07/25/12 10:55	321-60-8	
Terphenyl-d14 (S)	96	%	24-168	1	07/24/12 00:00	07/25/12 10:55	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**2.6**	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	83-32-9	
Acenaphthylene	**0.33**	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	53-70-3	
Fluoranthene	**0.18**	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	206-44-0	
Fluorene	**0.66**	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	193-39-5	
Naphthalene	**8.0**	ug/L	0.50	1	07/24/12 00:00	08/04/12 04:25	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/04/12 04:25	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:25	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	79	%	42-120	50	07/24/12 00:00	08/04/12 04:42	4165-60-0	
2-Fluorobiphenyl (S)	73	%	44-120	50	07/24/12 00:00	08/04/12 04:42	321-60-8	
Terphenyl-d14 (S)	115	%	46-131	50	07/24/12 00:00	08/04/12 04:42	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**16200**	ug/L	100	100		07/27/12 14:42	71-43-2	
Ethylbenzene	**462**	ug/L	50.0	50		07/27/12 02:12	100-41-4	
Toluene	**1960**	ug/L	50.0	50		07/27/12 02:12	108-88-3	
Xylene (Total)	**431**	ug/L	150	50		07/27/12 02:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	80-120	50		07/27/12 02:12	1868-53-7	
Toluene-d8 (S)	104	%	80-120	50		07/27/12 02:12	2037-26-5	
4-Bromofluorobenzene (S)	106	%	80-120	50		07/27/12 02:12	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	50		07/27/12 02:12	17060-07-0	
Preservation pH	**1.0**		1.0	50		07/27/12 02:12		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-8-071812 **Lab ID: 60125567004** Collected: 07/18/12 13:50 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**188**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**188**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1590**	mg/L	5.0	1		07/23/12 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**5.3**	mg/L	1.0	1		07/30/12 17:08	24959-67-9	
Chloride	**522**	mg/L	100	100		07/31/12 15:39	16887-00-6	
Sulfate	**2.8**	mg/L	1.0	1		07/30/12 17:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 11:23		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-9-071812 **Lab ID: 60125567005** Collected: 07/18/12 16:55 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**10000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:34	7440-70-2	
Magnesium	**2680**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:34	7439-95-4	
Potassium	**757**	ug/L	500	1	07/24/12 11:30	07/30/12 14:34	7440-09-7	
Sodium	**176000**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:17	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	**8.7**	mg/L	1.0	1	07/24/12 00:00	07/25/12 11:14		
TPH-DRO	**58.7**	mg/L	1.0	1	07/24/12 00:00	07/25/12 11:14		
Surrogates								
Nitrobenzene-d5 (S)	112	%	21-189	1	07/24/12 00:00	07/25/12 11:14	4165-60-0	
2-Fluorobiphenyl (S)	120	%	34-180	1	07/24/12 00:00	07/25/12 11:14	321-60-8	
Terphenyl-d14 (S)	103	%	24-168	1	07/24/12 00:00	07/25/12 11:14	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.31**	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	83-32-9	
Acenaphthylene	**0.15**	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	120-12-7	
Benzo(a)anthracene	**0.16**	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	53-70-3	
Fluoranthene	**0.18**	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	206-44-0	
Fluorene	**0.28**	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	193-39-5	
Naphthalene	**675**	ug/L	25.0	50	07/24/12 00:00	08/07/12 20:57	91-20-3	
Phenanthrene	**0.51**	ug/L	0.50	1	07/24/12 00:00	08/05/12 12:57	85-01-8	
Pyrene	**0.14**	ug/L	0.10	1	07/24/12 00:00	08/05/12 12:57	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	82	%	42-120	50	07/24/12 00:00	08/07/12 20:57	4165-60-0	
2-Fluorobiphenyl (S)	83	%	44-120	50	07/24/12 00:00	08/07/12 20:57	321-60-8	
Terphenyl-d14 (S)	122	%	46-131	50	07/24/12 00:00	08/07/12 20:57	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**15600**	ug/L	100	100		07/27/12 14:58	71-43-2	
Ethylbenzene	**957**	ug/L	50.0	50		07/27/12 02:27	100-41-4	
Toluene	ND	ug/L	50.0	50		07/27/12 02:27	108-88-3	
Xylene (Total)	**1190**	ug/L	150	50		07/27/12 02:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	80-120	50		07/27/12 02:27	1868-53-7	
Toluene-d8 (S)	102	%	80-120	50		07/27/12 02:27	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120	50		07/27/12 02:27	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	50		07/27/12 02:27	17060-07-0	
Preservation pH	**1.0**		1.0	50		07/27/12 02:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-9-071812 **Lab ID: 60125567005** Collected: 07/18/12 16:55 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**431**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**431**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**617**	mg/L	5.0	1		07/23/12 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.4**	mg/L	1.0	1		07/30/12 17:25	24959-67-9	
Chloride	**64.9**	mg/L	10.0	10		07/31/12 15:57	16887-00-6	
Sulfate	**12.1**	mg/L	1.0	1		07/30/12 17:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 12:43		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-10-071812 **Lab ID: 60125567006** Collected: 07/18/12 15:20 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**790000**	ug/L	1000	10	07/24/12 11:30	07/31/12 12:20	7440-70-2	
Magnesium	**170000**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:36	7439-95-4	
Potassium	**10900**	ug/L	500	1	07/24/12 11:30	07/30/12 14:36	7440-09-7	
Sodium	**749000**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:20	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 11:33		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 11:33		
Surrogates								
Nitrobenzene-d5 (S)	96	%	21-189	1	07/24/12 00:00	07/25/12 11:33	4165-60-0	
2-Fluorobiphenyl (S)	82	%	34-180	1	07/24/12 00:00	07/25/12 11:33	321-60-8	
Terphenyl-d14 (S)	96	%	24-168	1	07/24/12 00:00	07/25/12 11:33	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.54**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	83-32-9	
Acenaphthylene	**0.11**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	208-96-8	
Anthracene	**0.35**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	120-12-7	
Benzo(a)anthracene	**0.44**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	50-32-8	
Benzo(b)fluoranthene	**0.18**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	53-70-3	
Fluoranthene	**1.3**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	206-44-0	
Fluorene	**0.81**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	193-39-5	
Naphthalene	**144**	ug/L	0.50	1	07/24/12 00:00	08/05/12 13:33	91-20-3	
Phenanthrene	**1.9**	ug/L	0.50	1	07/24/12 00:00	08/05/12 13:33	85-01-8	
Pyrene	**0.81**	ug/L	0.10	1	07/24/12 00:00	08/05/12 13:33	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	79	%	42-120	50	07/24/12 00:00	08/07/12 21:14	4165-60-0	
2-Fluorobiphenyl (S)	80	%	44-120	50	07/24/12 00:00	08/07/12 21:14	321-60-8	
Terphenyl-d14 (S)	108	%	46-131	50	07/24/12 00:00	08/07/12 21:14	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/27/12 02:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 02:41	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 05:01	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 02:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	80-120	1		07/26/12 05:01	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		07/26/12 05:01	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		07/26/12 05:01	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		07/26/12 05:01	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 05:01		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-10-071812 **Lab ID: 60125567006** Collected: 07/18/12 15:20 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**239**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**239**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**6960**	mg/L	5.0	1		07/23/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**11.5**	mg/L	1.0	1		07/30/12 17:43	24959-67-9	
Chloride	**2750**	mg/L	500	500		07/31/12 16:14	16887-00-6	
Sulfate	**335**	mg/L	50.0	50		07/31/12 16:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**2.9**	mg/L	0.10	1		07/20/12 11:28		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-11-071812 **Lab ID: 60125567007** Collected: 07/18/12 15:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**215000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:42	7440-70-2	
Magnesium	**64200**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:42	7439-95-4	
Potassium	**3600**	ug/L	500	1	07/24/12 11:30	07/30/12 14:42	7440-09-7	
Sodium	**80600**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:26	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 11:51		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 11:51		
Surrogates								
Nitrobenzene-d5 (S)	106	%	21-189	1	07/24/12 00:00	07/25/12 11:51	4165-60-0	
2-Fluorobiphenyl (S)	90	%	34-180	1	07/24/12 00:00	07/25/12 11:51	321-60-8	
Terphenyl-d14 (S)	104	%	24-168	1	07/24/12 00:00	07/25/12 11:51	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.10**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	120-12-7	
Benzo(a)anthracene	**0.13**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	53-70-3	
Fluoranthene	**0.24**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 14:08	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 14:08	85-01-8	
Pyrene	**0.15**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:08	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	80	%	42-120	50	07/24/12 00:00	08/07/12 21:31	4165-60-0	IO
2-Fluorobiphenyl (S)	84	%	44-120	50	07/24/12 00:00	08/07/12 21:31	321-60-8	
Terphenyl-d14 (S)	134	%	46-131	50	07/24/12 00:00	08/07/12 21:31	1718-51-0	S4
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/27/12 02:56	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 05:17	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 05:17	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 05:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	80-120	1		07/26/12 05:17	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		07/26/12 05:17	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120	1		07/26/12 05:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		07/26/12 05:17	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 05:17		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-11-071812 **Lab ID: 60125567007** Collected: 07/18/12 15:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**144**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**144**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1780**	mg/L	5.0	1		07/23/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**4.1**	mg/L	1.0	1		07/30/12 18:35	24959-67-9	
Chloride	**560**	mg/L	100	100		07/31/12 16:49	16887-00-6	
Sulfate	**55.3**	mg/L	5.0	5		07/31/12 17:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**7.3**	mg/L	0.50	5		07/20/12 12:51		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-12-071812 **Lab ID: 60125567008** Collected: 07/18/12 14:15 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**3420000**	ug/L	2000	20	07/24/12 11:30	07/31/12 12:28	7440-70-2	
Magnesium	**812000**	ug/L	1000	20	07/24/12 11:30	07/31/12 12:28	7439-95-4	
Potassium	**56500**	ug/L	500	1	07/24/12 11:30	07/30/12 14:44	7440-09-7	
Sodium	**11400000**	ug/L	25000	50	07/24/12 11:30	07/31/12 18:08	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 12:10		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 12:10		
Surrogates								
Nitrobenzene-d5 (S)	93	%	21-189	1	07/24/12 00:00	07/25/12 12:10	4165-60-0	
2-Fluorobiphenyl (S)	81	%	34-180	1	07/24/12 00:00	07/25/12 12:10	321-60-8	
Terphenyl-d14 (S)	96	%	24-168	1	07/24/12 00:00	07/25/12 12:10	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/04/12 04:59	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/04/12 04:59	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 04:59	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	80	%	42-120	50	07/24/12 00:00	08/04/12 05:17	4165-60-0	IO
2-Fluorobiphenyl (S)	73	%	44-120	50	07/24/12 00:00	08/04/12 05:17	321-60-8	
Terphenyl-d14 (S)	122	%	46-131	50	07/24/12 00:00	08/04/12 05:17	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/27/12 03:56	71-43-2	HS
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 05:32	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 05:32	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 05:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	80-120	1		07/26/12 05:32	1868-53-7	HS
Toluene-d8 (S)	103	%	80-120	1		07/26/12 05:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		07/26/12 05:32	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	80-120	1		07/26/12 05:32	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 05:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-12-071812 **Lab ID: 60125567008** Collected: 07/18/12 14:15 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**122**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**122**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**57200**	mg/L	5.0	1		07/23/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**32.6**	mg/L	20.0	20		07/31/12 17:24	24959-67-9	D3
Chloride	**25000**	mg/L	5000	5000		08/01/12 10:44	16887-00-6	
Sulfate	**716**	mg/L	50.0	50		07/31/12 18:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.3**	mg/L	0.10	1		07/20/12 11:25		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-13-071812 **Lab ID: 60125567009** Collected: 07/18/12 13:40 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**252000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:47	7440-70-2	
Magnesium	**53400**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:47	7439-95-4	
Potassium	**6240**	ug/L	500	1	07/24/12 11:30	07/30/12 14:47	7440-09-7	
Sodium	**71500**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:30	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 12:29		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 12:29		
Surrogates								
Nitrobenzene-d5 (S)	100	%	21-189	1	07/24/12 00:00	07/25/12 12:29	4165-60-0	
2-Fluorobiphenyl (S)	88	%	34-180	1	07/24/12 00:00	07/25/12 12:29	321-60-8	
Terphenyl-d14 (S)	98	%	24-168	1	07/24/12 00:00	07/25/12 12:29	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.12**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	120-12-7	
Benzo(a)anthracene	**0.75**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	50-32-8	
Benzo(b)fluoranthene	**0.55**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	53-70-3	
Fluoranthene	**1.1**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	206-44-0	
Fluorene	**0.14**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	193-39-5	
Naphthalene	**3.7**	ug/L	0.50	1	07/24/12 00:00	08/05/12 14:42	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 14:42	85-01-8	
Pyrene	**0.55**	ug/L	0.10	1	07/24/12 00:00	08/05/12 14:42	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	77	%	42-120	50	07/24/12 00:00	08/07/12 21:48	4165-60-0	IO
2-Fluorobiphenyl (S)	81	%	44-120	50	07/24/12 00:00	08/07/12 21:48	321-60-8	
Terphenyl-d14 (S)	119	%	46-131	50	07/24/12 00:00	08/07/12 21:48	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 05:48	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 05:48	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 05:48	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 05:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	80-120	1		07/26/12 05:48	1868-53-7	
Toluene-d8 (S)	106	%	80-120	1		07/26/12 05:48	2037-26-5	
4-Bromofluorobenzene (S)	96	%	80-120	1		07/26/12 05:48	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		07/26/12 05:48	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 05:48		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-13-071812 **Lab ID: 60125567009** Collected: 07/18/12 13:40 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**340**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**340**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1240**	mg/L	5.0	1		07/23/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.4**	mg/L	1.0	1		07/30/12 19:10	24959-67-9	
Chloride	**230**	mg/L	50.0	50		07/31/12 18:51	16887-00-6	
Sulfate	**239**	mg/L	50.0	50		07/31/12 18:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**15.2**	mg/L	0.50	5		07/20/12 12:49		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-14-071812 **Lab ID: 60125567010** Collected: 07/18/12 17:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**455000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:49	7440-70-2	
Magnesium	**137000**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:49	7439-95-4	
Potassium	**8790**	ug/L	500	1	07/24/12 11:30	07/30/12 14:49	7440-09-7	
Sodium	**49800**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:32	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 12:48		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 12:48		
Surrogates								
Nitrobenzene-d5 (S)	99	%	21-189	1	07/24/12 00:00	07/25/12 12:48	4165-60-0	
2-Fluorobiphenyl (S)	86	%	34-180	1	07/24/12 00:00	07/25/12 12:48	321-60-8	
Terphenyl-d14 (S)	100	%	24-168	1	07/24/12 00:00	07/25/12 12:48	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 15:16	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 15:16	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:16	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	59	%	42-120	50	07/24/12 00:00	08/06/12 16:30	4165-60-0	IO
2-Fluorobiphenyl (S)	72	%	44-120	50	07/24/12 00:00	08/06/12 16:30	321-60-8	
Terphenyl-d14 (S)	111	%	46-131	50	07/24/12 00:00	08/06/12 16:30	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 06:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 06:04	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 06:04	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 06:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	80-120	1		07/26/12 06:04	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		07/26/12 06:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		07/26/12 06:04	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	80-120	1		07/26/12 06:04	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 06:04		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-14-071812 **Lab ID: 60125567010** Collected: 07/18/12 17:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**314**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**314**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2430**	mg/L	5.0	1		07/23/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**1.1**	mg/L	1.0	1		07/30/12 19:27	24959-67-9	
Chloride	**382**	mg/L	50.0	50		07/31/12 19:08	16887-00-6	
Sulfate	**812**	mg/L	50.0	50		07/31/12 19:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**16.0**	mg/L	0.50	5		07/20/12 12:52		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-15-071812 **Lab ID: 60125567011** Collected: 07/18/12 13:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**91000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:51	7440-70-2	
Magnesium	**34800**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:51	7439-95-4	
Potassium	**3140**	ug/L	500	1	07/24/12 11:30	07/30/12 14:51	7440-09-7	
Sodium	**55600**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:35	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 13:07		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 13:07		
Surrogates								
Nitrobenzene-d5 (S)	102	%	21-189	1	07/24/12 00:00	07/25/12 13:07	4165-60-0	
2-Fluorobiphenyl (S)	88	%	34-180	1	07/24/12 00:00	07/25/12 13:07	321-60-8	
Terphenyl-d14 (S)	108	%	24-168	1	07/24/12 00:00	07/25/12 13:07	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.5**	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	83-32-9	
Acenaphthylene	**0.21**	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	208-96-8	
Anthracene	**0.35**	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	120-12-7	
Benzo(a)anthracene	**0.19**	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	53-70-3	
Fluoranthene	**0.65**	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	206-44-0	
Fluorene	**1.5**	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	193-39-5	
Naphthalene	**21.3**	ug/L	0.50	1	07/24/12 00:00	08/04/12 05:34	91-20-3	
Phenanthrene	**2.2**	ug/L	0.50	1	07/24/12 00:00	08/04/12 05:34	85-01-8	
Pyrene	**0.35**	ug/L	0.10	1	07/24/12 00:00	08/04/12 05:34	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	87	%	42-120	50	07/24/12 00:00	08/04/12 05:51	4165-60-0	IO
2-Fluorobiphenyl (S)	80	%	44-120	50	07/24/12 00:00	08/04/12 05:51	321-60-8	
Terphenyl-d14 (S)	127	%	46-131	50	07/24/12 00:00	08/04/12 05:51	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 06:19	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 06:19	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 06:19	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 06:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	80-120	1		07/26/12 06:19	1868-53-7	HS
Toluene-d8 (S)	98	%	80-120	1		07/26/12 06:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1		07/26/12 06:19	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	80-120	1		07/26/12 06:19	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 06:19		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-15-071812 **Lab ID: 60125567011** Collected: 07/18/12 13:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**258**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**258**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**601**	mg/L	5.0	1		07/23/12 11:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.4**	mg/L	1.0	1		07/30/12 19:45	24959-67-9	
Chloride	**110**	mg/L	10.0	10		07/31/12 19:43	16887-00-6	
Sulfate	**52.7**	mg/L	5.0	5		07/31/12 20:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 11:22		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-16-071812 **Lab ID: 60125567012** Collected: 07/18/12 12:45 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**160000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:53	7440-70-2	
Magnesium	**45800**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:53	7439-95-4	
Potassium	**2780**	ug/L	500	1	07/24/12 11:30	07/30/12 14:53	7440-09-7	
Sodium	**51700**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:37	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 13:26		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 13:26		
Surrogates								
Nitrobenzene-d5 (S)	99	%	21-189	1	07/24/12 00:00	07/25/12 13:26	4165-60-0	
2-Fluorobiphenyl (S)	83	%	34-180	1	07/24/12 00:00	07/25/12 13:26	321-60-8	
Terphenyl-d14 (S)	99	%	24-168	1	07/24/12 00:00	07/25/12 13:26	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.25**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	53-70-3	
Fluoranthene	**0.10**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	206-44-0	
Fluorene	**0.21**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	193-39-5	
Naphthalene	**98.8**	ug/L	0.50	1	07/24/12 00:00	08/04/12 06:08	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/04/12 06:08	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:08	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	87	%	42-120	50	07/24/12 00:00	08/04/12 06:25	4165-60-0	
2-Fluorobiphenyl (S)	77	%	44-120	50	07/24/12 00:00	08/04/12 06:25	321-60-8	
Terphenyl-d14 (S)	118	%	46-131	50	07/24/12 00:00	08/04/12 06:25	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 06:35	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 06:35	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 06:35	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 06:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	80-120	1		07/26/12 06:35	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		07/26/12 06:35	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120	1		07/26/12 06:35	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120	1		07/26/12 06:35	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 06:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-16-071812 **Lab ID: 60125567012** Collected: 07/18/12 12:45 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**336**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**336**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**801**	mg/L	5.0	1		07/23/12 11:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**3.3**	mg/L	1.0	1		07/30/12 20:02	24959-67-9	
Chloride	**199**	mg/L	20.0	20		07/31/12 20:18	16887-00-6	
Sulfate	**54.4**	mg/L	5.0	5		07/31/12 20:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 11:19		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-17-071812 **Lab ID: 60125567013** Collected: 07/18/12 12:15 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**344000**	ug/L	100	1	07/24/12 11:30	07/30/12 14:55	7440-70-2	
Magnesium	**68000**	ug/L	50.0	1	07/24/12 11:30	07/30/12 14:55	7439-95-4	
Potassium	**10300**	ug/L	500	1	07/24/12 11:30	07/30/12 14:55	7440-09-7	
Sodium	**238000**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:39	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 13:45		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 13:45		
Surrogates								
Nitrobenzene-d5 (S)	98	%	21-189	1	07/24/12 00:00	07/25/12 13:45	4165-60-0	
2-Fluorobiphenyl (S)	83	%	34-180	1	07/24/12 00:00	07/25/12 13:45	321-60-8	
Terphenyl-d14 (S)	99	%	24-168	1	07/24/12 00:00	07/25/12 13:45	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.26**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	83-32-9	
Acenaphthylene	**0.16**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	208-96-8	
Anthracene	**0.45**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	120-12-7	
Benzo(a)anthracene	**1.4**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	56-55-3	
Benzo(a)pyrene	**1.5**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	50-32-8	
Benzo(b)fluoranthene	**11.5**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	205-99-2	
Benzo(g,h,i)perylene	**4.2**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	207-08-9	
Chrysene	**3.4**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	218-01-9	
Dibenz(a,h)anthracene	**0.95**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	53-70-3	
Fluoranthene	**7.6**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	206-44-0	
Fluorene	**0.68**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**3.5**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	193-39-5	
Naphthalene	**210**	ug/L	25.0	50	07/24/12 00:00	08/04/12 06:59	91-20-3	
Phenanthrene	**2.0**	ug/L	0.50	1	07/24/12 00:00	08/04/12 06:42	85-01-8	
Pyrene	**4.0**	ug/L	0.10	1	07/24/12 00:00	08/04/12 06:42	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	84	%	42-120	50	07/24/12 00:00	08/04/12 06:59	4165-60-0	
2-Fluorobiphenyl (S)	74	%	44-120	50	07/24/12 00:00	08/04/12 06:59	321-60-8	
Terphenyl-d14 (S)	92	%	46-131	50	07/24/12 00:00	08/04/12 06:59	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 06:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 06:51	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 06:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 06:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	80-120	1		07/26/12 06:51	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		07/26/12 06:51	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		07/26/12 06:51	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		07/26/12 06:51	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 06:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-17-071812 **Lab ID: 60125567013** Collected: 07/18/12 12:15 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**289**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**289**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1960**	mg/L	5.0	1		07/23/12 11:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.8**	mg/L	1.0	1		07/30/12 15:58	24959-67-9	
Chloride	**637**	mg/L	50.0	50		07/31/12 20:52	16887-00-6	
Sulfate	**262**	mg/L	50.0	50		07/31/12 20:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 11:17		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-18-071812 **Lab ID: 60125567014** Collected: 07/18/12 12:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**2300000**	ug/L	5000	50	07/24/12 11:30	07/31/12 12:41	7440-70-2	
Magnesium	**714000**	ug/L	2500	50	07/24/12 11:30	07/31/12 12:41	7439-95-4	
Potassium	**39100**	ug/L	500	1	07/24/12 11:30	07/30/12 14:57	7440-09-7	
Sodium	**3320000**	ug/L	25000	50	07/24/12 11:30	07/31/12 12:41	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 14:04		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 14:04		
Surrogates								
Nitrobenzene-d5 (S)	98	%	21-189	1	07/24/12 00:00	07/25/12 14:04	4165-60-0	
2-Fluorobiphenyl (S)	85	%	34-180	1	07/24/12 00:00	07/25/12 14:04	321-60-8	
Terphenyl-d14 (S)	97	%	24-168	1	07/24/12 00:00	07/25/12 14:04	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.36**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	120-12-7	
Benzo(a)anthracene	**0.12**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	53-70-3	
Fluoranthene	**0.13**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	206-44-0	
Fluorene	**0.33**	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	193-39-5	
Naphthalene	**6.5**	ug/L	0.50	1	07/24/12 00:00	08/04/12 07:17	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/04/12 07:17	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/04/12 07:17	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	94	%	42-120	50	07/24/12 00:00	08/04/12 07:34	4165-60-0	
2-Fluorobiphenyl (S)	83	%	44-120	50	07/24/12 00:00	08/04/12 07:34	321-60-8	
Terphenyl-d14 (S)	116	%	46-131	50	07/24/12 00:00	08/04/12 07:34	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 07:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 07:07	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 07:07	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 07:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	80-120	1		07/26/12 07:07	1868-53-7	HS
Toluene-d8 (S)	102	%	80-120	1		07/26/12 07:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		07/26/12 07:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		07/26/12 07:07	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 07:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-18-071812 **Lab ID: 60125567014** Collected: 07/18/12 12:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**393**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**393**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**27300**	mg/L	5.0	1		07/23/12 11:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	100	100		08/01/12 14:30	24959-67-9	D3
Chloride	**10100**	mg/L	2000	2000		08/01/12 14:13	16887-00-6	
Sulfate	**672**	mg/L	100	100		08/01/12 14:30	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.8**	mg/L	0.10	1		07/20/12 11:16		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-19-071812 **Lab ID: 60125567015** Collected: 07/18/12 13:50 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**422000**	ug/L	100	1	07/24/12 11:30	07/30/12 15:00	7440-70-2	
Magnesium	**50300**	ug/L	50.0	1	07/24/12 11:30	07/30/12 15:00	7439-95-4	
Potassium	**8670**	ug/L	500	1	07/24/12 11:30	07/30/12 15:00	7440-09-7	
Sodium	**49400**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:43	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 14:23		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 14:23		
Surrogates								
Nitrobenzene-d5 (S)	100	%	21-189	1	07/24/12 00:00	07/25/12 14:23	4165-60-0	
2-Fluorobiphenyl (S)	84	%	34-180	1	07/24/12 00:00	07/25/12 14:23	321-60-8	
Terphenyl-d14 (S)	96	%	24-168	1	07/24/12 00:00	07/25/12 14:23	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.66**	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	53-70-3	
Fluoranthene	**0.26**	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	206-44-0	
Fluorene	**0.51**	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	193-39-5	
Naphthalene	**42.9**	ug/L	0.50	1	07/24/12 00:00	08/05/12 15:50	91-20-3	
Phenanthrene	**0.64**	ug/L	0.50	1	07/24/12 00:00	08/05/12 15:50	85-01-8	
Pyrene	**0.12**	ug/L	0.10	1	07/24/12 00:00	08/05/12 15:50	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	73	%	42-120	50	07/24/12 00:00	08/06/12 16:47	4165-60-0	IO
2-Fluorobiphenyl (S)	86	%	44-120	50	07/24/12 00:00	08/06/12 16:47	321-60-8	
Terphenyl-d14 (S)	118	%	46-131	50	07/24/12 00:00	08/06/12 16:47	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 07:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 07:22	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 07:22	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 07:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	80-120	1		07/26/12 07:22	1868-53-7	HS
Toluene-d8 (S)	100	%	80-120	1		07/26/12 07:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1		07/26/12 07:22	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		07/26/12 07:22	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 07:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-19-071812 **Lab ID: 60125567015** Collected: 07/18/12 13:50 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**635**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**635**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**585**	mg/L	5.0	1		07/23/12 11:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**1.4**	mg/L	1.0	1		07/30/12 17:43	24959-67-9	
Chloride	**113**	mg/L	10.0	10		07/31/12 22:54	16887-00-6	
Sulfate	**27.8**	mg/L	2.0	2		07/31/12 23:12	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**2.6**	mg/L	0.10	1		07/20/12 11:24		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-20-071812 **Lab ID: 60125567016** Collected: 07/18/12 11:40 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**2240000**	ug/L	5000	50	07/24/12 11:30	07/31/12 12:45	7440-70-2	
Magnesium	**654000**	ug/L	2500	50	07/24/12 11:30	07/31/12 12:45	7439-95-4	
Potassium	**39600**	ug/L	500	1	07/24/12 11:30	07/30/12 15:02	7440-09-7	
Sodium	**1070000**	ug/L	25000	50	07/24/12 11:30	07/31/12 12:45	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 14:42		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 14:42		
Surrogates								
Nitrobenzene-d5 (S)	104	%	21-189	1	07/24/12 00:00	07/25/12 14:42	4165-60-0	
2-Fluorobiphenyl (S)	88	%	34-180	1	07/24/12 00:00	07/25/12 14:42	321-60-8	
Terphenyl-d14 (S)	98	%	24-168	1	07/24/12 00:00	07/25/12 14:42	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.46**	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	83-32-9	
Acenaphthylene	**0.11**	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	53-70-3	
Fluoranthene	**0.15**	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	206-44-0	
Fluorene	**0.43**	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	193-39-5	
Naphthalene	**6.7**	ug/L	0.50	1	07/24/12 00:00	08/05/12 16:24	91-20-3	
Phenanthrene	**0.56**	ug/L	0.50	1	07/24/12 00:00	08/05/12 16:24	85-01-8	
Pyrene	**0.14**	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:24	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-120	50	07/24/12 00:00	08/05/12 16:41	4165-60-0	
2-Fluorobiphenyl (S)	75	%	44-120	50	07/24/12 00:00	08/05/12 16:41	321-60-8	
Terphenyl-d14 (S)	98	%	46-131	50	07/24/12 00:00	08/05/12 16:41	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 07:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 07:38	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 07:38	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 07:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	80-120	1		07/26/12 07:38	1868-53-7	HS
Toluene-d8 (S)	100	%	80-120	1		07/26/12 07:38	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		07/26/12 07:38	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		07/26/12 07:38	17060-07-0	
Preservation pH	**7.0**		1.0	1		07/26/12 07:38		pH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: MW-20-071812 **Lab ID: 60125567016** Collected: 07/18/12 11:40 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**1820**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**1820**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**14000**	mg/L	5.0	1		07/23/12 11:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**13.6**	mg/L	1.0	1		07/30/12 18:00	24959-67-9	
Chloride	ND	mg/L	1.0	1		07/30/12 18:00	16887-00-6	
Sulfate	**508**	mg/L	100	100		08/01/12 15:05	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**4.3**	mg/L	0.20	2		07/20/12 11:38		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: EW-1-071812 **Lab ID: 60125567017** Collected: 07/18/12 14:20 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**2450000**	ug/L	5000	50	07/24/12 11:30	07/31/12 12:52	7440-70-2	
Magnesium	**748000**	ug/L	2500	50	07/24/12 11:30	07/31/12 12:52	7439-95-4	
Potassium	**67600**	ug/L	500	1	07/24/12 11:30	07/30/12 15:09	7440-09-7	
Sodium	**13000000**	ug/L	25000	50	07/24/12 11:30	07/31/12 12:52	7440-23-5	
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 15:01		
TPH-DRO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 15:01		
Surrogates								
Nitrobenzene-d5 (S)	102	%	21-189	1	07/24/12 00:00	07/25/12 15:01	4165-60-0	
2-Fluorobiphenyl (S)	87	%	34-180	1	07/24/12 00:00	07/25/12 15:01	321-60-8	
Terphenyl-d14 (S)	104	%	24-168	1	07/24/12 00:00	07/25/12 15:01	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	53-70-3	
Fluoranthene	**0.12**	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 16:58	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 16:58	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 16:58	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	70	%	42-120	50	07/24/12 00:00	08/06/12 17:04	4165-60-0	IO
2-Fluorobiphenyl (S)	86	%	44-120	50	07/24/12 00:00	08/06/12 17:04	321-60-8	
Terphenyl-d14 (S)	135	%	46-131	50	07/24/12 00:00	08/06/12 17:04	1718-51-0	S4
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 07:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 07:54	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 07:54	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 07:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	80-120	1		07/26/12 07:54	1868-53-7	
Toluene-d8 (S)	98	%	80-120	1		07/26/12 07:54	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120	1		07/26/12 07:54	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120	1		07/26/12 07:54	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 07:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: EW-1-071812 **Lab ID: 60125567017** Collected: 07/18/12 14:20 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**108**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**59600**	mg/L	5.0	1		07/23/12 11:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**38.0**	mg/L	20.0	20		08/01/12 00:04	24959-67-9	
Chloride	**26500**	mg/L	2000	2000		08/01/12 01:14	16887-00-6	
Sulfate	**746**	mg/L	50.0	50		08/01/12 00:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**6.1**	mg/L	0.20	2		07/20/12 12:50		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: WW-071812 **Lab ID: 60125567018** Collected: 07/18/12 18:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium	**112000**	ug/L	100	1	07/24/12 11:30	07/30/12 15:11	7440-70-2	M1
Magnesium	**60700**	ug/L	50.0	1	07/24/12 11:30	07/30/12 15:11	7439-95-4	
Potassium	**5740**	ug/L	500	1	07/24/12 11:30	07/30/12 15:11	7440-09-7	
Sodium	**171000**	ug/L	5000	10	07/24/12 11:30	07/31/12 12:54	7440-23-5	M6
8270 MSSV DRO/ORO	Analytical Method: EPA 8270 Preparation Method: EPA 3510C							
TPH-ORO	ND	mg/L	1.0	1	07/24/12 00:00	07/25/12 15:20		
TPH-DRO	**1.7**	mg/L	1.0	1	07/24/12 00:00	07/25/12 15:20		
Surrogates								
Nitrobenzene-d5 (S)	100	%	21-189	1	07/24/12 00:00	07/25/12 15:20	4165-60-0	
2-Fluorobiphenyl (S)	84	%	34-180	1	07/24/12 00:00	07/25/12 15:20	321-60-8	
Terphenyl-d14 (S)	104	%	24-168	1	07/24/12 00:00	07/25/12 15:20	1718-51-0	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	53-70-3	
Fluoranthene	**0.17**	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 17:33	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/05/12 17:33	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/05/12 17:33	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	69	%	42-120	50	07/24/12 00:00	08/06/12 17:21	4165-60-0	IO
2-Fluorobiphenyl (S)	86	%	44-120	50	07/24/12 00:00	08/06/12 17:21	321-60-8	
Terphenyl-d14 (S)	122	%	46-131	50	07/24/12 00:00	08/06/12 17:21	1718-51-0	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 08:09	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 08:09	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 08:09	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 08:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	1		07/26/12 08:09	1868-53-7	HS
Toluene-d8 (S)	106	%	80-120	1		07/26/12 08:09	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		07/26/12 08:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		07/26/12 08:09	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 08:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: WW-071812 **Lab ID: 60125567018** Collected: 07/18/12 18:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**141**	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		08/01/12 11:30		
Alkalinity, Total as CaCO3	**141**	mg/L	20.0	1		08/01/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1250**	mg/L	5.0	1		07/23/12 11:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**3.0**	mg/L	1.0	1		07/30/12 18:35	24959-67-9	
Chloride	**451**	mg/L	50.0	50		08/01/12 01:31	16887-00-6	
Sulfate	**139**	mg/L	20.0	20		08/01/12 01:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/20/12 12:45		

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ANALYTICAL RESULTS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Sample: TRIPS **Lab ID: 60125567019** Collected: 07/18/12 00:00 Received: 07/20/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		07/26/12 08:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/26/12 08:25	100-41-4	
Toluene	ND	ug/L	1.0	1		07/26/12 08:25	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		07/26/12 08:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	1		07/26/12 08:25	1868-53-7	
Toluene-d8 (S)	104	%	80-120	1		07/26/12 08:25	2037-26-5	
4-Bromofluorobenzene (S)	91	%	80-120	1		07/26/12 08:25	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		07/26/12 08:25	17060-07-0	
Preservation pH	**1.0**		1.0	1		07/26/12 08:25		

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: MPRP/18823 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

METHOD BLANK: 1033785 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	ND	100	07/30/12 14:17	
Magnesium	ug/L	ND	50.0	07/30/12 14:17	
Potassium	ug/L	ND	500	07/30/12 14:17	
Sodium	ug/L	ND	500	07/31/12 12:00	

LABORATORY CONTROL SAMPLE: 1033786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9380	94	80-120	
Magnesium	ug/L	10000	9520	95	80-120	
Potassium	ug/L	10000	9420	94	80-120	
Sodium	ug/L	10000	9420	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1033787 1033788

Parameter	Units	60125567018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	112000	10000	10000	117000	119000	45	66	75-125	2	20	M1
Magnesium	ug/L	60700	10000	10000	68700	69800	80	92	75-125	2	20	
Potassium	ug/L	5740	10000	10000	15800	15900	100	102	75-125	1	20	
Sodium	ug/L	171000	10000	10000	178000	182000	73	106	75-125	2	20	M6

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: MSV/47280 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018, 60125567019

METHOD BLANK: 1034721 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018, 60125567019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	07/26/12 03:27	
Ethylbenzene	ug/L	ND	1.0	07/26/12 03:27	
Toluene	ug/L	ND	1.0	07/26/12 03:27	
Xylene (Total)	ug/L	ND	3.0	07/26/12 03:27	
1,2-Dichloroethane-d4 (S)	%	105	80-120	07/26/12 03:27	
4-Bromofluorobenzene (S)	%	95	80-120	07/26/12 03:27	
Dibromofluoromethane (S)	%	99	80-120	07/26/12 03:27	
Toluene-d8 (S)	%	101	80-120	07/26/12 03:27	

LABORATORY CONTROL SAMPLE: 1034722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.1	95	74-123	
Ethylbenzene	ug/L	20	20.0	100	76-123	
Toluene	ug/L	20	19.2	96	75-123	
Xylene (Total)	ug/L	60	59.8	100	76-123	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Dibromofluoromethane (S)	%			101	80-120	
Toluene-d8 (S)	%			105	80-120	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: MSV/47316 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007

METHOD BLANK: 1035320 Matrix: Water
Associated Lab Samples: 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	07/26/12 21:59	
Ethylbenzene	ug/L	ND	1.0	07/26/12 21:59	
Toluene	ug/L	ND	1.0	07/26/12 21:59	
Xylene (Total)	ug/L	ND	3.0	07/26/12 21:59	
1,2-Dichloroethane-d4 (S)	%	96	80-120	07/26/12 21:59	
4-Bromofluorobenzene (S)	%	101	80-120	07/26/12 21:59	
Dibromofluoromethane (S)	%	104	80-120	07/26/12 21:59	
Toluene-d8 (S)	%	105	80-120	07/26/12 21:59	

LABORATORY CONTROL SAMPLE: 1035321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.8	94	74-123	
Ethylbenzene	ug/L	20	19.0	95	76-123	
Toluene	ug/L	20	18.4	92	75-123	
Xylene (Total)	ug/L	60	56.2	94	76-123	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: MSV/47317
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60125567008

METHOD BLANK: 1035322 Matrix: Water
Associated Lab Samples: 60125567008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	07/27/12 03:41	
1,2-Dichloroethane-d4 (S)	%	98	80-120	07/27/12 03:41	
4-Bromofluorobenzene (S)	%	105	80-120	07/27/12 03:41	
Dibromofluoromethane (S)	%	103	80-120	07/27/12 03:41	
Toluene-d8 (S)	%	104	80-120	07/27/12 03:41	

LABORATORY CONTROL SAMPLE: 1035323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.2	101	74-123	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			105	80-120	
Dibromofluoromethane (S)	%			103	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035324 1035325

Parameter	Units	60125625003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	2350	2000	2000	3240	3270	45	46	40-155	1	45	
1,2-Dichloroethane-d4 (S)	%						95	98	80-120			
4-Bromofluorobenzene (S)	%						103	105	80-120			
Dibromofluoromethane (S)	%						102	104	80-120			
Toluene-d8 (S)	%						99	102	80-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: MSV/47360 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60125567002, 60125567004, 60125567005

METHOD BLANK: 1036003 Matrix: Water
Associated Lab Samples: 60125567002, 60125567004, 60125567005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	07/27/12 14:09	
1,2-Dichloroethane-d4 (S)	%	102	80-120	07/27/12 14:09	
4-Bromofluorobenzene (S)	%	103	80-120	07/27/12 14:09	
Dibromofluoromethane (S)	%	102	80-120	07/27/12 14:09	
Toluene-d8 (S)	%	102	80-120	07/27/12 14:09	

LABORATORY CONTROL SAMPLE: 1036004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.4	102	74-123	
1,2-Dichloroethane-d4 (S)	%			109	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: OEXT/34121 Analysis Method: EPA 8270
QC Batch Method: EPA 3510C Analysis Description: 8270 MSSV TPH ORO
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

METHOD BLANK: 1033731 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	1.0	07/25/12 09:22	
TPH-ORO	mg/L	ND	1.0	07/25/12 09:22	
2-Fluorobiphenyl (S)	%	78	34-180	07/25/12 09:22	
Nitrobenzene-d5 (S)	%	91	21-189	07/25/12 09:22	
Terphenyl-d14 (S)	%	88	24-168	07/25/12 09:22	

LABORATORY CONTROL SAMPLE: 1033732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	100	99.7	100	38-163	
2-Fluorobiphenyl (S)	%			168	34-180	
Nitrobenzene-d5 (S)	%			135	21-189	
Terphenyl-d14 (S)	%			122	24-168	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: OEXT/34122 Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

METHOD BLANK: 1033733 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	08/04/12 02:59	
Acenaphthylene	ug/L	ND	0.10	08/04/12 02:59	
Anthracene	ug/L	ND	0.10	08/04/12 02:59	
Benzo(a)anthracene	ug/L	ND	0.10	08/04/12 02:59	
Benzo(a)pyrene	ug/L	ND	0.10	08/04/12 02:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	08/04/12 02:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	08/04/12 02:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	08/04/12 02:59	
Chrysene	ug/L	ND	0.10	08/04/12 02:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	08/04/12 02:59	
Fluoranthene	ug/L	ND	0.10	08/04/12 02:59	
Fluorene	ug/L	ND	0.10	08/04/12 02:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	08/04/12 02:59	
Naphthalene	ug/L	ND	0.50	08/04/12 02:59	
Phenanthrene	ug/L	ND	0.50	08/04/12 02:59	
Pyrene	ug/L	ND	0.10	08/04/12 02:59	
2-Fluorobiphenyl (S)	%	90	44-120	08/07/12 20:22	
Nitrobenzene-d5 (S)	%	89	42-120	08/07/12 20:22	IO
Terphenyl-d14 (S)	%	126	46-131	08/07/12 20:22	

LABORATORY CONTROL SAMPLE: 1033734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	10	8.6	86	48-120	
Acenaphthylene	ug/L	10	9.1	91	42-120	
Anthracene	ug/L	10	9.1	91	48-120	
Benzo(a)anthracene	ug/L	10	9.0	90	53-118	
Benzo(a)pyrene	ug/L	10	8.5	85	48-115	
Benzo(b)fluoranthene	ug/L	10	7.4	74	42-132	
Benzo(g,h,i)perylene	ug/L	10	9.2	92	38-116	
Benzo(k)fluoranthene	ug/L	10	10.3	103	48-117	
Chrysene	ug/L	10	9.7	97	51-115	
Dibenz(a,h)anthracene	ug/L	10	8.6	86	40-116	
Fluoranthene	ug/L	10	10.3	103	37-134	
Fluorene	ug/L	10	9.5	95	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	10	8.6	86	37-118	
Naphthalene	ug/L	10	8.5	85	41-112	
Phenanthrene	ug/L	10	9.3	93	52-116	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

LABORATORY CONTROL SAMPLE: 1033734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	10	9.3	93	44-134	
2-Fluorobiphenyl (S)	%			121	44-120	S0
Nitrobenzene-d5 (S)	%			96	42-120	
Terphenyl-d14 (S)	%			92	46-131	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: WET/36334 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

METHOD BLANK: 1037831 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	08/01/12 11:30	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	08/01/12 11:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	08/01/12 11:30	

LABORATORY CONTROL SAMPLE: 1037832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	477	95	90-110	

SAMPLE DUPLICATE: 1037833

Parameter	Units	60125567002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	357	359	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	357	359	1	9	

SAMPLE DUPLICATE: 1037834

Parameter	Units	60125567009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	340	336	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	340	336	1	9	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: WET/36181 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

METHOD BLANK: 1033429 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	07/23/12 11:14	

SAMPLE DUPLICATE: 1033430

Parameter	Units	60125567001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1620	1670	3	17	

SAMPLE DUPLICATE: 1033431

Parameter	Units	60125567013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1960	1970	0	17	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: WETA/21081 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012

METHOD BLANK: 1036969 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	07/30/12 08:51	
Sulfate	mg/L	ND	1.0	07/30/12 08:51	

METHOD BLANK: 1037348 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	07/31/12 11:20	
Chloride	mg/L	ND	1.0	07/31/12 11:20	
Sulfate	mg/L	ND	1.0	07/31/12 11:20	

METHOD BLANK: 1038367 Matrix: Water
Associated Lab Samples: 60125567008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/01/12 10:09	

LABORATORY CONTROL SAMPLE: 1036970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.4	108	90-110	
Sulfate	mg/L	5	5.3	106	90-110	

LABORATORY CONTROL SAMPLE: 1037349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.2	104	90-110	
Chloride	mg/L	5	5.1	101	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

LABORATORY CONTROL SAMPLE: 1038368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1036971 1036972

Parameter	Units	1207455001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	50	50	55.9	55.5	112	111	75-119	1	10	
Chloride	mg/L	72.0	50	50	123	122	102	100	64-118	1	12	
Sulfate	mg/L	288	250	250	557	545	108	103	61-119	2	10	

MATRIX SPIKE SAMPLE: 1036973

Parameter	Units	60125567002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	7.5	5	12.6	102	75-119	
Chloride	mg/L	672	500	1110	88	64-118	
Sulfate	mg/L	29.2	500	509	96	61-119	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: WETA/21082 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

METHOD BLANK: 1037019 Matrix: Water
Associated Lab Samples: 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	07/30/12 15:23	
Chloride	mg/L	ND	1.0	07/30/12 15:23	

METHOD BLANK: 1037355 Matrix: Water
Associated Lab Samples: 60125567013, 60125567015, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	07/31/12 09:53	
Sulfate	mg/L	ND	1.0	07/31/12 09:53	

METHOD BLANK: 1038369 Matrix: Water
Associated Lab Samples: 60125567014, 60125567016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	08/01/12 10:09	
Sulfate	mg/L	ND	1.0	08/01/12 10:09	

LABORATORY CONTROL SAMPLE: 1037020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	99	90-110	
Chloride	mg/L	5	4.9	97	90-110	

LABORATORY CONTROL SAMPLE: 1037356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.1	102	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 1038370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037021 1037022

Parameter	Units	60125567013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	2.8	5	5	7.7	7.8	98	101	75-119	2	10	
Chloride	mg/L	637	250	250	844	842	83	82	64-118	0	12	
Sulfate	mg/L	262	250	250	497	501	94	95	61-119	1	10	

MATRIX SPIKE SAMPLE: 1037023

Parameter	Units	120758001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	5	5.2	104	75-119	
Chloride	mg/L	4.0	5	8.5	89	64-118	
Sulfate	mg/L	13.0	5	18.8	116	61-119	

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QUALITY CONTROL DATA

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

QC Batch: WETA/20970 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

METHOD BLANK: 1032434 Matrix: Water
Associated Lab Samples: 60125567001, 60125567002, 60125567003, 60125567004, 60125567005, 60125567006, 60125567007, 60125567008, 60125567009, 60125567010, 60125567011, 60125567012, 60125567013, 60125567014, 60125567015, 60125567016, 60125567017, 60125567018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	07/20/12 11:13	

LABORATORY CONTROL SAMPLE: 1032435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	103	90-110	

MATRIX SPIKE SAMPLE: 1032436

Parameter	Units	60125567016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	4.3	3.2	7.5	99	90-110	

MATRIX SPIKE SAMPLE: 1032438

Parameter	Units	60125567007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	7.3	8	15.4	102	90-110	

SAMPLE DUPLICATE: 1032437

Parameter	Units	60125567013 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	

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QUALIFIERS

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/34121
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47280
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47316
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47317
[1]

Batch: MSV/47360
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125567001	**MW-2-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567002	**MW-3-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567003	**MW-4-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567004	**MW-8-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567005	**MW-9-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567006	**MW-10-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567007	**MW-11-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567008	**MW-12-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567009	**MW-13-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567010	**MW-14-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567011	**MW-15-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567012	**MW-16-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567013	**MW-17-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567014	**MW-18-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567015	**MW-19-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567016	**MW-20-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567017	**EW-1-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567018	**WW-071812**	EPA 3010	MPRP/18823	EPA 6010	ICP/15680
60125567001	**MW-2-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567002	**MW-3-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567003	**MW-4-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567004	**MW-8-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567005	**MW-9-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567006	**MW-10-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567007	**MW-11-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567008	**MW-12-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567009	**MW-13-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567010	**MW-14-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567011	**MW-15-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567012	**MW-16-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567013	**MW-17-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567014	**MW-18-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567015	**MW-19-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567016	**MW-20-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567017	**EW-1-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567018	**WW-071812**	EPA 3510C	OEXT/34121	EPA 8270	MSSV/10695
60125567001	**MW-2-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567002	**MW-3-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567003	**MW-4-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567004	**MW-8-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567005	**MW-9-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567006	**MW-10-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567007	**MW-11-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567008	**MW-12-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567009	**MW-13-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567010	**MW-14-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567011	**MW-15-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567012	**MW-16-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125567013	**MW-17-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567014	**MW-18-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567015	**MW-19-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567016	**MW-20-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567017	**EW-1-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567018	**WW-071812**	EPA 3510C	OEXT/34122	EPA 8270C by SIM	MSSV/10744
60125567001	**MW-2-071812**	EPA 8260	MSV/47280		
60125567002	**MW-3-071812**	EPA 8260	MSV/47280		
60125567002	**MW-3-071812**	EPA 8260	MSV/47316		
60125567002	**MW-3-071812**	EPA 8260	MSV/47360		
60125567003	**MW-4-071812**	EPA 8260	MSV/47280		
60125567003	**MW-4-071812**	EPA 8260	MSV/47316		
60125567004	**MW-8-071812**	EPA 8260	MSV/47316		
60125567004	**MW-8-071812**	EPA 8260	MSV/47360		
60125567005	**MW-9-071812**	EPA 8260	MSV/47316		
60125567005	**MW-9-071812**	EPA 8260	MSV/47360		
60125567006	**MW-10-071812**	EPA 8260	MSV/47280		
60125567006	**MW-10-071812**	EPA 8260	MSV/47316		
60125567007	**MW-11-071812**	EPA 8260	MSV/47280		
60125567007	**MW-11-071812**	EPA 8260	MSV/47316		
60125567008	**MW-12-071812**	EPA 8260	MSV/47280		
60125567008	**MW-12-071812**	EPA 8260	MSV/47317		
60125567009	**MW-13-071812**	EPA 8260	MSV/47280		
60125567010	**MW-14-071812**	EPA 8260	MSV/47280		
60125567011	**MW-15-071812**	EPA 8260	MSV/47280		
60125567012	**MW-16-071812**	EPA 8260	MSV/47280		
60125567013	**MW-17-071812**	EPA 8260	MSV/47280		
60125567014	**MW-18-071812**	EPA 8260	MSV/47280		
60125567015	**MW-19-071812**	EPA 8260	MSV/47280		
60125567016	**MW-20-071812**	EPA 8260	MSV/47280		
60125567017	**EW-1-071812**	EPA 8260	MSV/47280		
60125567018	**WW-071812**	EPA 8260	MSV/47280		
60125567019	**TRIPS**	EPA 8260	MSV/47280		
60125567001	**MW-2-071812**	SM 2320B	WET/36334		
60125567002	**MW-3-071812**	SM 2320B	WET/36334		
60125567003	**MW-4-071812**	SM 2320B	WET/36334		
60125567004	**MW-8-071812**	SM 2320B	WET/36334		
60125567005	**MW-9-071812**	SM 2320B	WET/36334		
60125567006	**MW-10-071812**	SM 2320B	WET/36334		
60125567007	**MW-11-071812**	SM 2320B	WET/36334		
60125567008	**MW-12-071812**	SM 2320B	WET/36334		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125567009	**MW-13-071812**	SM 2320B	WET/36334		
60125567010	**MW-14-071812**	SM 2320B	WET/36334		
60125567011	**MW-15-071812**	SM 2320B	WET/36334		
60125567012	**MW-16-071812**	SM 2320B	WET/36334		
60125567013	**MW-17-071812**	SM 2320B	WET/36334		
60125567014	**MW-18-071812**	SM 2320B	WET/36334		
60125567015	**MW-19-071812**	SM 2320B	WET/36334		
60125567016	**MW-20-071812**	SM 2320B	WET/36334		
60125567017	**EW-1-071812**	SM 2320B	WET/36334		
60125567018	**WW-071812**	SM 2320B	WET/36334		
60125567001	**MW-2-071812**	SM 2540C	WET/36181		
60125567002	**MW-3-071812**	SM 2540C	WET/36181		
60125567003	**MW-4-071812**	SM 2540C	WET/36181		
60125567004	**MW-8-071812**	SM 2540C	WET/36181		
60125567005	**MW-9-071812**	SM 2540C	WET/36181		
60125567006	**MW-10-071812**	SM 2540C	WET/36181		
60125567007	**MW-11-071812**	SM 2540C	WET/36181		
60125567008	**MW-12-071812**	SM 2540C	WET/36181		
60125567009	**MW-13-071812**	SM 2540C	WET/36181		
60125567010	**MW-14-071812**	SM 2540C	WET/36181		
60125567011	**MW-15-071812**	SM 2540C	WET/36181		
60125567012	**MW-16-071812**	SM 2540C	WET/36181		
60125567013	**MW-17-071812**	SM 2540C	WET/36181		
60125567014	**MW-18-071812**	SM 2540C	WET/36181		
60125567015	**MW-19-071812**	SM 2540C	WET/36181		
60125567016	**MW-20-071812**	SM 2540C	WET/36181		
60125567017	**EW-1-071812**	SM 2540C	WET/36181		
60125567018	**WW-071812**	SM 2540C	WET/36181		
60125567001	**MW-2-071812**	EPA 300.0	WETA/21081		
60125567002	**MW-3-071812**	EPA 300.0	WETA/21081		
60125567003	**MW-4-071812**	EPA 300.0	WETA/21081		
60125567004	**MW-8-071812**	EPA 300.0	WETA/21081		
60125567005	**MW-9-071812**	EPA 300.0	WETA/21081		
60125567006	**MW-10-071812**	EPA 300.0	WETA/21081		
60125567007	**MW-11-071812**	EPA 300.0	WETA/21081		
60125567008	**MW-12-071812**	EPA 300.0	WETA/21081		
60125567009	**MW-13-071812**	EPA 300.0	WETA/21081		
60125567010	**MW-14-071812**	EPA 300.0	WETA/21081		
60125567011	**MW-15-071812**	EPA 300.0	WETA/21081		
60125567012	**MW-16-071812**	EPA 300.0	WETA/21081		
60125567013	**MW-17-071812**	EPA 300.0	WETA/21082		
60125567014	**MW-18-071812**	EPA 300.0	WETA/21082		
60125567015	**MW-19-071812**	EPA 300.0	WETA/21082		
60125567016	**MW-20-071812**	EPA 300.0	WETA/21082		
60125567017	**EW-1-071812**	EPA 300.0	WETA/21082		
60125567018	**WW-071812**	EPA 300.0	WETA/21082		
60125567001	**MW-2-071812**	EPA 353.2	WETA/20970		

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MALJAMAR GAS PLANT 075018
Pace Project No.: 60125567

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125567002	**MW-3-071812**	EPA 353.2	WETA/20970		
60125567003	**MW-4-071812**	EPA 353.2	WETA/20970		
60125567004	**MW-8-071812**	EPA 353.2	WETA/20970		
60125567005	**MW-9-071812**	EPA 353.2	WETA/20970		
60125567006	**MW-10-071812**	EPA 353.2	WETA/20970		
60125567007	**MW-11-071812**	EPA 353.2	WETA/20970		
60125567008	**MW-12-071812**	EPA 353.2	WETA/20970		
60125567009	**MW-13-071812**	EPA 353.2	WETA/20970		
60125567010	**MW-14-071812**	EPA 353.2	WETA/20970		
60125567011	**MW-15-071812**	EPA 353.2	WETA/20970		
60125567012	**MW-16-071812**	EPA 353.2	WETA/20970		
60125567013	**MW-17-071812**	EPA 353.2	WETA/20970		
60125567014	**MW-18-071812**	EPA 353.2	WETA/20970		
60125567015	**MW-19-071812**	EPA 353.2	WETA/20970		
60125567016	**MW-20-071812**	EPA 353.2	WETA/20970		
60125567017	**EW-1-071812**	EPA 353.2	WETA/20970		
60125567018	**WW-071812**	EPA 353.2	WETA/20970		

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 of 2

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	COP CRA Midland TX	Report To:		Attention	
Address	2135 South Loop, 250 West	Copy To:		Company Name	
	Midland, TX 79703			Address	
Email To:	KHorton@CRAWORLD.COM	Purchase Order No.		Pace Quote Reference	
Phone: (432) 686-0086	Fax (432) 686-0186	Project Name:	Maljamar Gas Plant	Pace Project Manager	Alice Tracy
Requested Due Date/TAT:	STD.	Project Number:	075018	Pace Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER | UST | RCRA | OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 66125567

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ICE	Analysis Test	EPA 8260- BTEX	EPA 8270 SIM- PAH	EPA 6010- Ca, Mg, K, Na	EPA 300.0- Cl, Br, SO4	EPA 353.2- NO3	SM 2540C- TDS	SM 2320B-Tot/Carb/Bicar	VOC 8260	8270 PAH SIM/1010/1020	Metals	TDS/Alkalinity/300.0 Anions/Nitrates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-2-071812	WT	G			7-18	1630		7	X		X	X				X									X	X	X	X		3(DG9H) 2(AG4U) 1(BP3N) 1(BP3N) 001
2	MW-3-071812	WT	G			7-18	1730		7	X		X	X				X									X	X	X	X		002
3	MW-4-071812	WT	G			7-18	1550		7	X		X	X				X									X	X	X	X		003
4	MW-8-071812	WT	G			7-18	1850		7	X		X	X				X									X	X	X	X		004
5	MW-9-071812	WT	G			7-18	1655		7	X		X	X				X									X	X	X	X		005
6	MW-10-071812	WT	G			7-18	1520		7	X		X	X				X									X	X	X	X		006
7	MW-11-071812	WT	G			7-18	1500		7	X		X	X				X									X	X	X	X		007
8	MW-12-071812	WT	G			7-18	1415		7	X		X	X				X									X	X	X	X		008
9	MW-13-071812	WT	G			7-18	1340		7	X		X	X				X									X	X	X	X		009
10	MW-14-071812	WT	G			7-18	1700		7	X		X	X				X									X	X	X	X		010
11	MW-15-071812	WT	G			7-18	1300		7	X		X	X				X									X	X	X	X		011
12	MW-16-071812	WT	G			7-18	1245		7	X		X	X				X									X	X	X	X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Joe Mireles / CRA	7-19-12	0930	[signature]	7/20/12	830	3.3	Y	Y	Y
							2.4	Y	Y	Y
							3.7	Y	Y	Y
							2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Mireles

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07-19-12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A — Required Client Information

Company:	COP CRA Midland TX
Address:	2135 South Loop, 250 West Midland, TX 79703
Email To:	KHorton@CRAWORLD.COM
Phone:	(432) 686-0086
Fax:	(432) 686-0186
Requested Due Date/TAT:	STD.

Section B — Required Project Information

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	Maljamar Gas Plant
Project Number:	075018

Section C — Invoice Information

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Tracy
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D — Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 60125567

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other Ice	EPA 8260- BTEX	EPA 8270 SIM- PAH	EPA 6010- Ca, Mg, K, Na	EPA 300.0- Cl, Br, SO4	EPA 353.2- NO3	SM 2540C- TDS	SM 2320B-Tot/Carb/Bicar	VOC8260	8270 PAH-SIM/DRO/ORO	metals	TDS/Alkalinity/300.0 Anions	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-17-071812	WT	G			7-18	1215		7	X		X	X				X								Y	Y	Y	X		3(DG9H) 2(AGOU) 1(BP3N) 1(BP3N) 003
2	MW-18-071812	WT	G			7-18	1200		7	X		X	X				X								Y	X	X	X		004
3	MW-19-071812	WT	G			7-18	1350		7	X		X	X				X								X	X	X	X		005
4	MW-20-071812	WT	G			7-18	1140		7	X		X	X				X								X	X	X	X		006
5	EW-1-071812	WT	C			7-18	1420		7	X		X	X				X								X	X	X	X		007
6	WW-071812	WT	G			7-18	1800		7	X		X	X				X								X	X	X	X		008
7	TRIPS	–	–			–	–		3				X				X								X					3(DG9H) 009
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Joe Miceles / CRA	7-19-12	0930	[signature]	7/20/12	830	2.7	Y	Y	Y
							3.3	Y	Y	Y
							2.8	Y	Y	Y
							2.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Miceles

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 07-19-12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev.08, 12-Oct-2007

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Sample Condition Upon Receipt – ESI Tech Specs

Client Name: COP CRA TX Project #: 60125567

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐ _____

Optional
Proj Due Date: 8/1
Proj Name:

Tracking #: 7938 0741 3520 Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☐ Other ☐ _____

Thermometer Used: T-191 / T-194 **Type of Ice:** ~~Wet~~ Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.8, 3.7, 2.4, 3.3

Date and initials of person examining contents: DS 7/20/12

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. NO2NO3
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
-Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
-Includes date/time/ID/analyses Matrix: water		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	MW-12, MW-15, MW-18, MW-19, MW-20, and WW
Pace Trip Blank lot # (if purchased): _____		15. all have 3 of 5 vials with headspace.
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start:	Start:
End:	End:
Temp:	Temp:

Project Manager Review: AMF Date: 7/20/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the NCDENR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

APPENDIX B

HISTORICAL WATER LEVEL MEASUREMENTS

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-11 **	12/13/01	4015.54	81.38		0.00	0.00	81.38	3934.16
	03/22/02	4015.54	83.60		0.00	0.00	83.60	3931.94
	09/16/02	4015.54	83.82		0.00	0.00	83.82	3931.72
	09/20/02	4015.54	83.70		0.00	0.00	83.70	3931.84
	09/04/03	4015.54	84.50		0.00	0.00	84.50	3931.04
	04/05/04	4015.54	84.54		0.00	0.00	84.54	3931.00
	05/17/04	4015.54	84.64		0.00	0.00	84.64	3930.90
	05/24/04	4015.54	84.55		0.00	0.00	84.55	3930.99
	06/01/04	4015.54	84.61		0.00	0.00	84.61	3930.93
	06/07/04	4015.54	84.58		0.00	0.00	84.58	3930.96
	06/15/04	4015.54	84.69		0.00	0.00	84.69	3930.85
	06/21/04	4015.54	84.72		0.00	0.00	84.72	3930.82
	06/28/04	4015.54	84.99		0.00	0.00	84.99	3930.55
	07/06/04	4015.54	84.83		0.00	0.00	84.83	3930.71
	07/12/04	4015.54	84.96		0.00	0.00	84.96	3930.58
	07/19/04	4015.54	84.90		0.00	0.00	84.90	3930.64
	07/26/04	4015.54	85.11		0.00	0.00	85.11	3930.43
	08/02/04	4015.54	84.96		0.00	0.00	84.96	3930.58
	08/10/04	4015.54	85.09		0.00	0.00	85.09	3930.45
	08/16/04	4015.54	85.06		0.00	0.00	85.06	3930.48
	08/23/04	4015.54	84.83		0.00	0.00	84.83	3930.71
	08/30/04	4015.54	85.06		0.00	0.00	85.06	3930.48
	09/08/04	4015.54	85.14		0.00	0.00	85.14	3930.40
	10/08/04	4015.54	85.12		0.00	0.00	85.12	3930.42
	12/30/04	4015.54	85.12		0.00	0.00	85.12	3930.42
	01/17/05	4015.54	85.52		0.00	0.00	85.52	3930.02
	02/09/05	4015.54	85.33		0.00	0.00	85.33	3930.21
	03/09/05	4015.54	85.45		0.00	0.00	85.45	3930.09
	04/05/05	4015.54	85.15		0.00	0.00	85.15	3930.39
	05/10/05	4015.54	85.21		0.00	0.00	85.21	3930.33
	06/08/05	4015.54	85.31		0.00	0.00	85.31	3930.23
	07/05/05	4015.54	85.59		0.00	0.00	85.59	3929.95
	08/08/05	4015.54	85.50		0.00	0.00	85.50	3930.04
	09/14/05	4015.54	85.42		0.00	0.00	85.42	3930.12
	10/12/05	4015.54	85.54		0.00	0.00	85.54	3930.00
	11/09/05	4015.54	85.62		0.00	0.00	85.62	3929.92
	12/14/05	4015.54	85.41		0.00	0.00	85.41	3930.13
	01/12/06	4015.54	85.26		0.00	0.00	85.26	3930.28
	02/02/06	4015.54	85.23		0.00	0.00	85.23	3930.31
	03/07/06	4015.54	85.44		0.00	0.00	85.44	3930.10
	04/05/06	4015.54	85.38		0.00	0.00	85.38	3930.16
	05/08/06	4015.54	85.33		0.00	0.00	85.33	3930.21
	06/05/06	4015.54	85.47		0.00	0.00	85.47	3930.07
	07/11/06	4015.54	85.48		0.00	0.00	85.48	3930.06
	08/16/06	4015.54	85.52		0.00	0.00	85.52	3930.02
	09/07/06	4015.54	85.43		0.00	0.00	85.43	3930.11
	10/11/06	4015.54	85.41		0.00	0.00	85.41	3930.13
	11/08/06	4015.54	85.31		0.00	0.00	85.31	3930.23
	12/04/06	4015.54	85.88		0.00	0.00	85.88	3929.66
	01/04/07	4015.54	85.20		0.00	0.00	85.20	3930.34
	02/27/07	4015.54	85.16		0.00	0.00	85.16	3930.38
	03/20/07	4015.54	85.33		0.00	0.00	85.33	3930.21

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	04/17/07	4015.54	85.17		0.00	0.00	85.17	3930.37
	05/07/07	4015.54	85.40		0.00	0.00	85.40	3930.14
	06/27/07	4015.54	85.27		0.00	0.00	85.27	3930.27
	07/19/07	4015.54	85.13		0.00	0.00	85.13	3930.41
	08/21/07	4015.54	85.08		0.00	0.00	85.08	3930.46
	09/17/07	4015.54	85.05		0.00	0.00	85.05	3930.49
	10/16/07	4015.54	84.97		0.00	0.00	84.97	3930.57
	11/20/07	4015.54	85.02		0.00	0.00	85.02	3930.52
	12/21/07	4015.54	84.81		0.00	0.00	84.81	3930.73
	01/22/08	4015.54	85.27		0.00	0.00	85.27	3930.27
	02/27/08	4015.54	85.20		0.00	0.00	85.20	3930.34
	03/25/08	4015.54	84.99		0.00	0.00	84.99	3930.55
	04/29/08	4015.54	84.98		0.00	0.00	84.98	3930.56
	05/05/08	4015.54	84.93		0.00	0.00	84.93	3930.61
	06/10/08	4015.54	84.94		0.00	0.00	84.94	3930.60
	07/15/08	4015.54	84.90		0.00	0.00	84.90	3930.64
	08/19/08	4015.54	84.88		0.00	0.00	84.88	3930.66
	09/16/08	4015.54	85.13		0.00	0.00	85.13	3930.41
	10/15/08	4015.54	85.03		0.00	0.00	85.03	3930.51
	11/12/08	4015.54	84.72		0.00	0.00	84.72	3930.82
	12/11/08	4015.54	84.92		0.00	0.00	84.92	3930.62
	01/13/09	4015.54	85.15		0.00	0.00	85.15	3930.39
	02/11/09	4015.54	84.85		0.00	0.00	84.85	3930.69
	03/10/09	4015.54	84.63		0.00	0.00	84.63	3930.91
	04/13/09	4015.54	84.79		0.00	0.00	84.79	3930.75
	05/01/09	4015.54	84.64		0.00	0.00	84.64	3930.90
	06/08/09	4015.54	84.51		0.00	0.00	84.51	3931.03
	07/13/09	4015.54	84.61		0.00	0.00	84.61	3930.93
	08/10/09	4015.54	84.60		0.00	0.00	84.60	3930.94
	09/15/09	4015.54	84.44		0.00	0.00	84.44	3931.10
	10/06/09	4015.54	84.34		0.00	0.00	84.34	3931.20
	11/09/09	4015.54	84.58		0.00	0.00	84.58	3930.96
	12/23/09	4015.54	84.06		0.00	0.00	84.06	3931.48
	01/20/10	4015.54	83.99		0.00	0.00	83.99	3931.55
	02/09/10	4015.54	84.64		0.00	0.00	84.64	3930.90
	03/09/10	4015.54	84.23		0.00	0.00	84.23	3931.31
	04/12/10	4015.54	84.54		0.00	0.00	84.54	3931.00
	05/24/10	4015.54	84.34		0.00	0.00	84.34	3931.20
	06/14/10	4015.54	84.48		0.00	0.00	84.48	3931.06
	07/20/10	4015.54	84.54		0.00	0.00	84.54	3931.00
	08/11/10	4015.54	84.57		0.00	0.00	84.57	3930.97
	09/21/10	4015.54	84.56		0.00	0.00	84.56	3930.98
	10/20/10	4015.54	84.62		0.00	0.00	84.62	3930.92
	11/08/10	4015.54	84.48		0.00	0.00	84.48	3931.06
	12/07/10	4015.54	84.58		0.00	0.00	84.58	3930.96
	01/18/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	02/08/11	4015.54	84.38		0.00	0.00	84.38	3931.16
	03/08/11	4015.54	84.40		0.00	0.00	84.40	3931.14
	04/13/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	05/23/11	4015.54	84.54		0.00	0.00	84.54	3931.00
	06/28/11	4015.54	84.85		0.00	0.00	84.85	3930.69
	07/19/11	4015.54	84.73		0.00	0.00	84.73	3930.81

APPENDIX B
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CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	08/31/11	4015.54	84.61		0.00	0.00	84.61	3930.93
	09/27/11	4015.54	84.66		0.00	0.00	84.66	3930.88
	10/24/11	4015.54	84.79		0.00	0.00	84.79	3930.75
	11/29/11	4015.54	84.99		0.00	0.00	84.99	3930.55
	12/23/11	4015.54	84.83		0.00	0.00	84.83	3930.71
	01/31/12	4015.54	84.77		0.00	0.00	84.77	3930.77
	02/29/12	4015.54	84.81		0.00	0.00	84.81	3930.73
	03/27/12	4015.54	84.85		0.00	0.00	84.85	3930.69
	04/18/12	4015.54	84.91		0.00	0.00	84.91	3930.63
	05/21/12	4015.54	85.15		0.00	0.00	85.15	3930.39
	07/17/12	4015.54	84.97		0.00	0.00	84.97	3930.57
	08/21/12	4015.54	84.97		0.00	0.00	84.97	3930.57
	09/17/12	4015.54	84.83		0.00	0.00	84.83	3930.71
	12/13/12	4015.54	85.15		0.00	0.00	85.15	3930.39
MW-12 **	12/13/01	4022.71	91.43		0.00	0.00	91.43	3931.28
	03/22/02	4022.71	94.38		0.00	0.00	94.38	3928.33
	09/16/02	4022.71	94.51		0.00	0.00	94.51	3928.20
	09/20/02	4022.71	94.31		0.00	0.00	94.31	3928.40
	04/05/04	4022.71	94.59		0.00	0.00	94.59	3928.12
	05/17/04	4022.71	94.60		0.00	0.00	94.60	3928.11
	05/24/04	4022.71	94.51		0.00	0.00	94.51	3928.20
	06/01/04	4022.71	94.53		0.00	0.00	94.53	3928.18
	06/07/04	4022.71	94.45		0.00	0.00	94.45	3928.26
	06/15/04	4022.71	94.56		0.00	0.00	94.56	3928.15
	06/21/04	4022.71	94.57		0.00	0.00	94.57	3928.14
	06/28/04	4022.71	94.84		0.00	0.00	94.84	3927.87
	07/06/04	4022.71	94.70		0.00	0.00	94.70	3928.01
	07/12/04	4022.71	94.80		0.00	0.00	94.80	3927.91
	07/19/04	4022.71	94.74		0.00	0.00	94.74	3927.97
	07/26/04	4022.71	94.92		0.00	0.00	94.92	3927.79
	08/02/04	4022.71	94.77		0.00	0.00	94.77	3927.94
	08/10/04	4022.71	94.88		0.00	0.00	94.88	3927.83
	08/16/04	4022.71	94.86		0.00	0.00	94.86	3927.85
	08/23/04	4022.71	94.60		0.00	0.00	94.60	3928.11
	08/30/04	4022.71	94.82		0.00	0.00	94.82	3927.89
	09/08/04	4022.71	94.89		0.00	0.00	94.89	3927.82
	10/08/04	4022.71	94.83		0.00	0.00	94.83	3927.88
	12/30/04	4022.71	94.72		0.00	0.00	94.72	3927.99
	01/17/05	4022.71	95.06		0.00	0.00	95.06	3927.65
	02/09/05	4022.71	94.94		0.00	0.00	94.94	3927.77
	03/09/05	4022.71	94.92		0.00	0.00	94.92	3927.79
	04/05/05	4022.71	94.58		0.00	0.00	94.58	3928.13
	05/10/05	4022.71	94.61		0.00	0.00	94.61	3928.10
	06/08/05	4022.71	94.58		0.00	0.00	94.58	3928.13
	07/05/05	4022.71	94.84		0.00	0.00	94.84	3927.87
	08/08/05	4022.71	94.78		0.00	0.00	94.78	3927.93
	09/14/05	4022.71	94.71		0.00	0.00	94.71	3928.00
	10/12/05	4022.71	94.82		0.00	0.00	94.82	3927.89
	11/09/05	4022.71	94.92		0.00	0.00	94.92	3927.79
	12/14/05	4022.71	94.70		0.00	0.00	94.70	3928.01
	01/12/06	4022.71	94.50		0.00	0.00	94.50	3928.21
	02/02/06	4022.71	94.58		0.00	0.00	94.58	3928.13

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MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	03/07/06	4022.71	94.76		0.00	0.00	94.76	3927.95
	04/05/06	4022.71	94.67		0.00	0.00	94.67	3928.04
	05/08/06	4022.71	94.61		0.00	0.00	94.61	3928.10
	06/05/06	4022.71	94.77		0.00	0.00	94.77	3927.94
	07/11/06	4022.71	94.84		0.00	0.00	94.84	3927.87
	08/16/06	4022.71	94.93		0.00	0.00	94.93	3927.78
	09/07/06	4022.71	94.86		0.00	0.00	94.86	3927.85
	10/11/06	4022.71	94.86		0.00	0.00	94.86	3927.85
	11/08/06	4022.71	94.72		0.00	0.00	94.72	3927.99
	12/04/06	4022.71	95.35		0.00	0.00	95.35	3927.36
	01/04/07	4022.71	94.68		0.00	0.00	94.68	3928.03
	02/27/07	4022.71	94.73		0.00	0.00	94.73	3927.98
	03/20/07	4022.71	94.93		0.00	0.00	94.93	3927.78
	04/17/07	4022.71	94.73		0.00	0.00	94.73	3927.98
	05/07/07	4022.71	94.95		0.00	0.00	94.95	3927.76
	06/27/07	4022.71	94.42		0.00	0.00	94.42	3928.29
	07/19/07	4022.71	94.71		0.00	0.00	94.71	3928.00
	08/21/07	4022.71	94.77		0.00	0.00	94.77	3927.94
	09/17/07	4022.71	94.90		0.00	0.00	94.90	3927.81
	10/16/07	4022.71	98.83		0.00	0.00	98.83	3923.88
	11/20/07	4022.71	99.07		0.00	0.00	99.07	3923.64
	12/21/07	4022.53	98.82		0.00	0.00	98.82	3923.71
	01/22/08	4022.53	97.14		0.00	0.00	97.14	3925.39
	02/27/08	4022.53	97.32		0.00	0.00	97.32	3925.21
	03/25/08	4022.53	98.91		0.00	0.00	98.91	3923.62
	04/29/08	4022.53	98.87		0.00	0.00	98.87	3923.66
	05/05/08	4022.53	98.82		0.00	0.00	98.82	3923.71
	06/10/08	4022.53	98.63		0.00	0.00	98.63	3923.90
	07/15/08	4022.53	98.65		0.00	0.00	98.65	3923.88
	08/19/08	4022.53	98.43		0.00	0.00	98.43	3924.10
	09/16/08	4022.53	98.92		0.00	0.00	98.92	3923.61
	10/15/08	4022.53	98.84		0.00	0.00	98.84	3923.69
	11/12/08	4022.53	98.52		0.00	0.00	98.52	3924.01
	12/11/08	4022.53	98.48		0.00	0.00	98.48	3924.05
	01/13/09	4022.53	98.86		0.00	0.00	98.86	3923.67
	02/11/09	4022.53	98.52		0.00	0.00	98.52	3924.01
	03/10/09	4022.53	98.29		0.00	0.00	98.29	3924.24
	04/13/09	4022.53	98.44		0.00	0.00	98.44	3924.09
	05/01/09	4022.53	98.27		0.00	0.00	98.27	3924.26
	06/08/09	4022.53	98.25		0.00	0.00	98.25	3924.28
	07/13/09	4022.53	98.28		0.00	0.00	98.28	3924.25
	08/10/09	4022.53	98.27		0.00	0.00	98.27	3924.26
	09/15/09	4022.53	98.04		0.00	0.00	98.04	3924.49
	10/06/09	4022.53	94.93		0.00	0.00	94.93	3927.60
	11/09/09	4022.53	97.97		0.00	0.00	97.97	3924.56
	12/23/09	4022.53	97.47		0.00	0.00	97.47	3925.06
	01/20/10	4022.53	97.36		0.00	0.00	97.36	3925.17
	02/09/10	4022.53	97.98		0.00	0.00	97.98	3924.55
	03/09/10	4022.53	97.58		0.00	0.00	97.58	3924.95
	04/12/10	4022.53	97.85		0.00	0.00	97.85	3924.68
	05/24/10	4022.53	97.57		0.00	0.00	97.57	3924.96
	06/14/10	4022.53	98.32		0.00	0.00	98.32	3924.21

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/20/10		98.23		0.00	0.00	98.23	-98.23
	08/11/10	4022.53	98.22		0.00	0.00	98.22	3924.31
	09/21/10	4022.53	98.01		0.00	0.00	98.01	3924.52
	10/20/10	4022.53	98.13		0.00	0.00	98.13	3924.40
	11/08/10	4022.53	97.97		0.00	0.00	97.97	3924.56
	12/07/10	4022.53	97.93		0.00	0.00	97.93	3924.60
	01/18/11	4022.53	97.81		0.00	0.00	97.81	3924.72
	02/08/11	4022.53	96.88		0.00	0.00	96.88	3925.65
	03/08/11	4022.53	94.42		0.00	0.00	94.42	3928.11
	04/13/11	4022.53	94.36		0.00	0.00	94.36	3928.17
	05/23/11	4022.53	94.20		0.00	0.00	94.20	3928.33
	06/28/11	4022.53	97.80		0.00	0.00	97.80	3924.73
	07/19/11	4022.53	97.74		0.00	0.00	97.74	3924.79
	08/31/11	4022.53	97.65		0.00	0.00	97.65	3924.88
	09/27/11	4022.53	97.67		0.00	0.00	97.67	3924.86
	10/24/11	4022.53	96.44		0.00	0.00	96.44	3926.09
	11/29/11	4022.53	98.06		0.00	0.00	98.06	3924.47
	12/23/11	4022.53	97.87		0.00	0.00	97.87	3924.66
	01/31/12	4022.53	97.73		0.00	0.00	97.73	3924.80
	02/29/12	4022.53	97.83		0.00	0.00	97.83	3924.70
	03/27/12	4022.53	97.78		0.00	0.00	97.78	3924.75
	04/18/12	4022.53	97.80		0.00	0.00	97.80	3924.73
	05/21/12	4022.53	98.02		0.00	0.00	98.02	3924.51
	07/17/12	4022.53	94.66		0.00	0.00	94.66	3927.87
	08/21/12	4022.53	97.65		0.00	0.00	97.65	3924.88
	09/17/12	4022.53	97.62		0.00	0.00	97.62	3924.91
	12/13/12	4022.53	97.87		0.00	0.00	97.87	3924.66
MW-13 **	12/13/01	4031.96	103.76		0.00	0.00	103.76	3928.20
	03/22/02	4031.96	107.18		0.00	0.00	107.18	3924.78
	09/16/02	4031.96	107.58		0.00	0.00	107.58	3924.38
	09/20/02	4031.96	107.48		0.00	0.00	107.48	3924.48
	04/05/04	4031.96	108.04		0.00	0.00	108.04	3923.92
	05/17/04	4031.96	108.06		0.00	0.00	108.06	3923.90
	05/24/04	4031.96	107.97		0.00	0.00	107.97	3923.99
	06/01/04	4031.96	107.97		0.00	0.00	107.97	3923.99
	06/07/04	4031.96	107.89		0.00	0.00	107.89	3924.07
	06/15/04	4031.96	107.99		0.00	0.00	107.99	3923.97
	06/21/04	4031.96	107.98		0.00	0.00	107.98	3923.98
	06/28/04	4031.96	108.29		0.00	0.00	108.29	3923.67
	07/06/04	4031.96	108.12		0.00	0.00	108.12	3923.84
	07/12/04	4031.96	108.22		0.00	0.00	108.22	3923.74
	07/19/04	4031.96	108.16		0.00	0.00	108.16	3923.80
	07/26/04	4031.96	108.34		0.00	0.00	108.34	3923.62
	08/02/04	4031.96	108.17		0.00	0.00	108.17	3923.79
	08/10/04	4031.96	108.29		0.00	0.00	108.29	3923.67
	08/16/04	4031.96	108.27		0.00	0.00	108.27	3923.69
	08/23/04	4031.96	108.01		0.00	0.00	108.01	3923.95
	08/30/04	4031.96	108.24		0.00	0.00	108.24	3923.72
	09/08/04	4031.96	108.31		0.00	0.00	108.31	3923.65
	10/08/04	4031.96	108.23		0.00	0.00	108.23	3923.73
	12/30/04	4031.96	108.12		0.00	0.00	108.12	3923.84
	01/17/05	4031.96	108.49		0.00	0.00	108.49	3923.47

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	02/09/05	4031.96	108.38		0.00	0.00	108.38	3923.58
	03/09/05	4031.96	108.44		0.00	0.00	108.44	3923.52
	04/05/05	4031.96	108.04		0.00	0.00	108.04	3923.92
	05/10/05	4031.96	108.09		0.00	0.00	108.09	3923.87
	06/08/05	4031.96	108.18		0.00	0.00	108.18	3923.78
	07/05/05	4031.96	108.47		0.00	0.00	108.47	3923.49
	08/08/05	4031.96	108.37		0.00	0.00	108.37	3923.59
	09/14/05	4031.96	108.28		0.00	0.00	108.28	3923.68
	10/12/05	4031.96	108.42		0.00	0.00	108.42	3923.54
	11/09/05	4031.96	108.51		0.00	0.00	108.51	3923.45
	12/14/05	4031.96	108.31		0.00	0.00	108.31	3923.65
	01/12/06	4031.96	108.16		0.00	0.00	108.16	3923.80
	02/02/06	4031.96	108.17		0.00	0.00	108.17	3923.79
	03/07/06	4031.96	108.33		0.00	0.00	108.33	3923.63
	04/05/06	4031.96	108.22		0.00	0.00	108.22	3923.74
	05/08/06	4031.96	108.18		0.00	0.00	108.18	3923.78
	06/05/06	4031.96	108.30		0.00	0.00	108.30	3923.66
	07/11/06	4031.96	108.34		0.00	0.00	108.34	3923.62
	08/16/06	4031.96	108.43		0.00	0.00	108.43	3923.53
	09/07/06	4031.96	108.32		0.00	0.00	108.32	3923.64
	10/11/06	4031.96	108.31		0.00	0.00	108.31	3923.65
	11/08/06	4031.96	108.18		0.00	0.00	108.18	3923.78
	12/04/06	4031.96	108.79		0.00	0.00	108.79	3923.17
	01/04/07	4031.96	108.11		0.00	0.00	108.11	3923.85
	02/27/07	4031.96	108.16		0.00	0.00	108.16	3923.80
	03/20/07	4031.96	108.37		0.00	0.00	108.37	3923.59
	04/17/07	4031.96	108.13		0.00	0.00	108.13	3923.83
	05/07/07	4031.96	108.37		0.00	0.00	108.37	3923.59
	06/27/07	4031.96	108.23		0.00	0.00	108.23	3923.73
	07/19/07	4031.96	108.13		0.00	0.00	108.13	3923.83
	08/21/07	4031.96	108.10		0.00	0.00	108.10	3923.86
	09/17/07	4031.96	108.08		0.00	0.00	108.08	3923.88
	10/16/07	4031.96	108.03		0.00	0.00	108.03	3923.93
	11/20/07	4031.96	108.11		0.00	0.00	108.11	3923.85
	12/21/07	4031.96	107.92		0.00	0.00	107.92	3924.04
	01/22/08	4031.96	108.42		0.00	0.00	108.42	3923.54
	02/27/08	4031.96	108.40		0.00	0.00	108.40	3923.56
	03/25/08	4031.96	108.22		0.00	0.00	108.22	3923.74
	04/29/08	4031.96	108.22		0.00	0.00	108.22	3923.74
	05/05/08	4031.96	108.22		0.00	0.00	108.22	3923.74
	06/10/08	4031.96	108.23		0.00	0.00	108.23	3923.73
	07/15/08	4031.96	108.23		0.00	0.00	108.23	3923.73
	08/19/08	4031.96	108.24		0.00	0.00	108.24	3923.72
	09/16/08	4031.96	108.52		0.00	0.00	108.52	3923.44
	10/15/08	4031.96	108.44		0.00	0.00	108.44	3923.52
	11/12/08	4031.96	108.15		0.00	0.00	108.15	3923.81
	12/11/08	4031.96	108.34		0.00	0.00	108.34	3923.62
	01/13/09	4031.96	108.55		0.00	0.00	108.55	3923.41
	02/11/09	4031.96	108.27		0.00	0.00	108.27	3923.69
	03/10/09	4031.96	108.05		0.00	0.00	108.05	3923.91
	04/13/09	4031.96	108.20		0.00	0.00	108.20	3923.76
	05/01/09	4031.96	108.02		0.00	0.00	108.02	3923.94

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	06/08/09	4031.96	107.90		0.00	0.00	107.90	3924.06
	07/13/09	4031.96	107.97		0.00	0.00	107.97	3923.99
	08/10/09	4031.96	107.98		0.00	0.00	107.98	3923.98
	09/15/09	4031.96	107.83		0.00	0.00	107.83	3924.13
	10/06/09	4031.96	107.73		0.00	0.00	107.73	3924.23
	11/09/09	4031.96	107.95		0.00	0.00	107.95	3924.01
	12/23/09	4031.96	107.45		0.00	0.00	107.45	3924.51
	01/20/10	4031.96	107.40		0.00	0.00	107.40	3924.56
	02/09/10	4031.96	108.03		0.00	0.00	108.03	3923.93
	03/09/10	4031.96	107.65		0.00	0.00	107.65	3924.31
	04/12/10	4031.96	107.94		0.00	0.00	107.94	3924.02
	05/24/10	4031.96	107.76		0.00	0.00	107.76	3924.20
	06/14/10	4031.96	107.90		0.00	0.00	107.90	3924.06
	07/20/10	4031.96	107.98		0.00	0.00	107.98	3923.98
	08/11/10	4031.96	108.00		0.00	0.00	108.00	3923.96
	09/21/10	4031.96	107.90		0.00	0.00	107.90	3924.06
	10/20/10	4031.96	108.08		0.00	0.00	108.08	3923.88
	11/08/10	4031.96	107.93		0.00	0.00	107.93	3924.03
	12/07/10	4031.96	107.99		0.00	0.00	107.99	3923.97
	01/18/11	4031.96	108.03		0.00	0.00	108.03	3923.93
	02/08/11	4031.96	108.77		0.00	0.00	108.77	3923.19
	03/08/11	4031.96	107.82		0.00	0.00	107.82	3924.14
	04/13/11	4031.96	108.03		0.00	0.00	108.03	3923.93
	05/23/11	4031.96	108.01		0.00	0.00	108.01	3923.95
	06/28/11	4031.96	108.28		0.00	0.00	108.28	3923.68
	07/19/11	4031.96	108.19		0.00	0.00	108.19	3923.77
	08/31/11	4031.96	108.05		0.00	0.00	108.05	3923.91
	09/27/11	4031.96	108.09		0.00	0.00	108.09	3923.87
	10/24/11	4031.96	108.19		0.00	0.00	108.19	3923.77
	11/29/11	4031.96	108.31		0.00	0.00	108.31	3923.65
	12/23/11	4031.96	108.13		0.00	0.00	108.13	3923.83
	01/31/12	4031.96	108.14		0.00	0.00	108.14	3923.82
	02/29/12	4031.96	108.06		0.00	0.00	108.06	3923.90
	03/27/12	4031.96	108.05		0.00	0.00	108.05	3923.91
	04/18/12	4031.96	108.12		0.00	0.00	108.12	3923.84
	05/21/12	4031.96	108.36		0.00	0.00	108.36	3923.60
	07/17/12	4031.96	108.18		0.00	0.00	108.18	3923.78
	08/21/12	4031.96	108.21		0.00	0.00	108.21	3923.75
	09/17/12	4031.96	108.08		0.00	0.00	108.08	3923.88
	12/13/12	4031.96	108.40		0.00	0.00	108.40	3923.56
MW-14 **	12/13/01	4006.98	74.67		0.00	0.00	74.67	3932.31
	03/22/02	4006.98	74.67		0.00	0.00	74.67	3932.31
	09/16/02	4006.98	74.56		0.00	0.00	74.56	3932.42
	09/20/02	4006.98	74.40		0.00	0.00	74.40	3932.58
	04/05/04	4006.98	75.20		0.00	0.00	75.20	3931.78
	05/17/04	4006.98	75.25		0.00	0.00	75.25	3931.73
	05/24/04	4006.98	75.17		0.00	0.00	75.17	3931.81
	06/01/04	4006.98	75.18		0.00	0.00	75.18	3931.80
	06/07/04	4006.98	75.12		0.00	0.00	75.12	3931.86
	06/15/04	4006.98	75.23		0.00	0.00	75.23	3931.75
	06/21/04	4006.98	75.24		0.00	0.00	75.24	3931.74
	06/28/04	4006.98	75.55		0.00	0.00	75.55	3931.43

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/06/04	4006.98	75.37		0.00	0.00	75.37	3931.61
	07/12/04	4006.98	75.49		0.00	0.00	75.49	3931.49
	07/19/04	4006.98	75.43		0.00	0.00	75.43	3931.55
	07/26/04	4006.98	75.64		0.00	0.00	75.64	3931.34
	08/02/04	4006.98	75.49		0.00	0.00	75.49	3931.49
	08/10/04	4006.98	75.62		0.00	0.00	75.62	3931.36
	08/16/04	4006.98	75.59		0.00	0.00	75.59	3931.39
	08/23/04	4006.98	75.32		0.00	0.00	75.32	3931.66
	08/30/04	4006.98	75.57		0.00	0.00	75.57	3931.41
	09/08/04	4006.98	75.65		0.00	0.00	75.65	3931.33
	10/08/04	4006.98	75.61		0.00	0.00	75.61	3931.37
	12/30/04	4006.98	75.45		0.00	0.00	75.45	3931.53
	01/17/05	4006.98	75.74		0.00	0.00	75.74	3931.24
	02/09/05	4006.98	75.46		0.00	0.00	75.46	3931.52
	03/09/05	4006.98	75.37		0.00	0.00	75.37	3931.61
	04/05/05	4006.98	74.84		0.00	0.00	74.84	3932.14
	05/10/05	4006.98	74.72		0.00	0.00	74.72	3932.26
	06/08/05	4006.98	74.71		0.00	0.00	74.71	3932.27
	07/05/05	4006.98	74.93		0.00	0.00	74.93	3932.05
	08/08/05	4006.98	74.78		0.00	0.00	74.78	3932.20
	09/14/05	4006.98	74.62		0.00	0.00	74.62	3932.36
	10/12/05	4006.98	74.69		0.00	0.00	74.69	3932.29
	11/09/05	4006.98	74.69		0.00	0.00	74.69	3932.29
	12/14/05	4006.98	74.29		0.00	0.00	74.29	3932.69
	01/12/06	4006.98	74.01		0.00	0.00	74.01	3932.97
	02/02/06	4006.98	73.91		0.00	0.00	73.91	3933.07
	03/07/06	4006.98	73.97		0.00	0.00	73.97	3933.01
	04/05/06	4006.98	73.80		0.00	0.00	73.80	3933.18
	05/08/06	4006.98	73.69		0.00	0.00	73.69	3933.29
	06/05/06	4006.98	73.78		0.00	0.00	73.78	3933.20
	07/11/06	4006.98	73.83		0.00	0.00	73.83	3933.15
	08/16/06	4006.98	73.94		0.00	0.00	73.94	3933.04
	09/07/06	4006.98	72.93		0.00	0.00	72.93	3934.05
	10/11/06	4006.98	73.95		0.00	0.00	73.95	3933.03
	11/08/06	4006.98	73.88		0.00	0.00	73.88	3933.10
	12/04/06	4006.98	74.53		0.00	0.00	74.53	3932.45
	01/04/07	4006.98	73.79		0.00	0.00	73.79	3933.19
	02/27/07	4006.98	73.73		0.00	0.00	73.73	3933.25
	03/20/07	4006.98	73.90		0.00	0.00	73.90	3933.08
	04/17/07	4006.98	73.68		0.00	0.00	73.68	3933.30
	05/07/07	4006.98	73.88		0.00	0.00	73.88	3933.10
	06/27/07	4006.98	73.80		0.00	0.00	73.80	3933.18
	07/19/07	4006.98	73.69		0.00	0.00	73.69	3933.29
	08/21/07	4006.98	73.61		0.00	0.00	73.61	3933.37
	09/17/07	4006.98	73.54		0.00	0.00	73.54	3933.44
	10/16/07	4006.98	73.39		0.00	0.00	73.39	3933.59
	11/20/07	4006.98	73.34		0.00	0.00	73.34	3933.64
	12/21/07	4006.98	73.05		0.00	0.00	73.05	3933.93
	01/22/08	4006.98	73.44		0.00	0.00	73.44	3933.54
	02/27/08	4006.98	73.37		0.00	0.00	73.37	3933.61
	03/25/08	4006.98	73.17		0.00	0.00	73.17	3933.81
	04/29/08	4006.98	73.16		0.00	0.00	73.16	3933.82

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	05/05/08	4006.98	73.14		0.00	0.00	73.14	3933.84
	06/10/08	4006.98	73.16		0.00	0.00	73.16	3933.82
	07/15/08	4006.98	73.25		0.00	0.00	73.25	3933.73
	08/19/08	4006.98	73.32		0.00	0.00	73.32	3933.66
	09/16/08	4006.98	73.68		0.00	0.00	73.68	3933.30
	10/15/08	4006.98	73.67		0.00	0.00	73.67	3933.31
	11/12/08	4006.98	73.44		0.00	0.00	73.44	3933.54
	12/11/08	4006.98	73.69		0.00	0.00	73.69	3933.29
	01/13/09	4006.98	73.89		0.00	0.00	73.89	3933.09
	02/11/09	4006.98	73.57		0.00	0.00	73.57	3933.41
	03/10/09	4006.98	73.34		0.00	0.00	73.34	3933.64
	04/13/09	4006.98	73.43		0.00	0.00	73.43	3933.55
	05/01/09	4006.98	73.30		0.00	0.00	73.30	3933.68
	06/08/09	4006.98	73.15		0.00	0.00	73.15	3933.83
	07/13/09	4006.98	73.29		0.00	0.00	73.29	3933.69
	08/10/09	4006.98	73.32		0.00	0.00	73.32	3933.66
	09/15/09	4006.98	73.22		0.00	0.00	73.22	3933.76
	10/06/09	4006.98	73.15		0.00	0.00	73.15	3933.83
	11/09/09	4006.98	73.43		0.00	0.00	73.43	3933.55
	12/23/09	4006.98	72.93		0.00	0.00	72.93	3934.05
	01/20/10	4006.98	72.88		0.00	0.00	72.88	3934.10
	02/09/10	4006.98	73.48		0.00	0.00	73.48	3933.50
	03/09/10	4006.98	73.09		0.00	0.00	73.09	3933.89
	04/12/10	4006.98	73.40		0.00	0.00	73.40	3933.58
	05/24/10	4006.98	73.24		0.00	0.00	73.24	3933.74
	06/14/10	4006.98	73.40		0.00	0.00	73.40	3933.58
	07/20/10	4006.98	73.53		0.00	0.00	73.53	3933.45
	08/11/10	4006.98	73.59		0.00	0.00	73.59	3933.39
	09/21/10	4006.98	73.55		0.00	0.00	73.55	3933.43
	10/20/10	4006.98	73.74		0.00	0.00	73.74	3933.24
	11/08/10	4006.98	73.62		0.00	0.00	73.62	3933.36
	12/07/10	4006.98	73.73		0.00	0.00	73.73	3933.25
	01/18/11	4006.98	73.73		0.00	0.00	73.73	3933.25
	02/08/11	4006.98	73.53		0.00	0.00	73.53	3933.45
	03/08/11	4006.98	73.54		0.00	0.00	73.54	3933.44
	04/13/11	4006.98	73.78		0.00	0.00	73.78	3933.20
	05/23/11	4006.98	73.75		0.00	0.00	73.75	3933.23
	06/28/11	4006.98	74.04		0.00	0.00	74.04	3932.94
	07/19/11	4006.98	73.93		0.00	0.00	73.93	3933.05
	08/31/11	4006.98	73.82		0.00	0.00	73.82	3933.16
	09/27/11	4006.98	73.92		0.00	0.00	73.92	3933.06
	10/24/11	4006.98	74.05		0.00	0.00	74.05	3932.93
	11/29/11	4006.98	74.22		0.00	0.00	74.22	3932.76
	12/23/11	4006.98	74.09		0.00	0.00	74.09	3932.89
	01/31/12	4006.98	74.05		0.00	0.00	74.05	3932.93
	02/29/12	4006.98	74.12		0.00	0.00	74.12	3932.86
	03/27/12	4006.98	74.05		0.00	0.00	74.05	3932.93
	04/18/12	4006.98	74.23		0.00	0.00	74.23	3932.75
	05/21/12	4006.98	74.49		0.00	0.00	74.49	3932.49
	07/17/12	4006.98	74.41		0.00	0.00	74.41	3932.57
	08/21/12	4006.98	74.46		0.00	0.00	74.46	3932.52
	09/17/12	4006.98	74.36		0.00	0.00	74.36	3932.62

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	12/13/12	4006.98	74.26		0.00	0.00	74.26	3932.72
MW-19 **	09/20/02	4037.34	117.23		0.00	0.00	116.67	3920.67
	04/05/04	4037.34	116.67		0.00	0.00	116.67	3920.67
	05/17/04	4037.34	116.62		0.00	0.00	116.62	3920.72
	05/24/04	4037.34	116.59		0.00	0.00	116.59	3920.75
	06/01/04	4037.34	116.57		0.00	0.00	116.57	3920.77
	06/07/04	4037.34	116.59		0.00	0.00	116.59	3920.75
	06/15/04	4037.34	116.53		0.00	0.00	116.53	3920.81
	06/21/04	4037.34	116.63		0.00	0.00	116.63	3920.71
	06/28/04	4037.34	116.68		0.00	0.00	116.68	3920.66
	07/06/04	4037.34	116.65		0.00	0.00	116.65	3920.69
	07/12/04	4037.34	116.66		0.00	0.00	116.66	3920.68
	07/19/04	4037.34	116.68		0.00	0.00	116.68	3920.66
	07/26/04	4037.34	116.73		0.00	0.00	116.73	3920.61
	08/02/04	4037.34	116.71		0.00	0.00	116.71	3920.63
	08/10/04	4037.34	116.71		0.00	0.00	116.71	3920.63
	08/16/04	4037.34	116.74		0.00	0.00	116.74	3920.60
	08/23/04	4037.34	116.69		0.00	0.00	116.69	3920.65
	08/30/04	4037.34	116.69		0.00	0.00	116.69	3920.65
	09/08/04	4037.34	116.73		0.00	0.00	116.73	3920.61
	10/08/04	4037.34	116.78		0.00	0.00	116.78	3920.56
	12/30/04	4037.34	116.76		0.00	0.00	116.76	3920.58
	01/17/05	4037.34	116.78		0.00	0.00	116.78	3920.56
	02/09/05	4037.34	116.76		0.00	0.00	116.76	3920.58
	03/09/05	4037.34	116.70		0.00	0.00	116.70	3920.64
	04/05/05	4037.34	116.64		0.00	0.00	116.64	3920.70
	05/10/05	4037.34	116.63		0.00	0.00	116.63	3920.71
	06/08/05	4037.34	116.57		0.00	0.00	116.57	3920.77
	07/05/05	4037.34	116.64		0.00	0.00	116.64	3920.70
	08/08/05	4037.34	116.77		0.00	0.00	116.77	3920.57
	09/15/05	4037.34	116.71		0.00	0.00	116.71	3920.63
	10/12/05	4037.34	116.70		0.00	0.00	116.70	3920.64
	11/09/05	4037.34	116.74		0.00	0.00	116.74	3920.60
	12/14/05	4037.34	116.74		0.00	0.00	116.74	3920.60
	01/12/06	4037.34	116.73		0.00	0.00	116.73	3920.61
	02/02/06	4037.34	116.70		0.00	0.00	116.70	3920.64
	03/07/06	4037.34	116.72		0.00	0.00	116.72	3920.62
	04/05/06	4037.34	116.68		0.00	0.00	116.68	3920.66
	05/08/06	4037.34	116.61		0.00	0.00	116.61	3920.73
	06/05/06	4037.34	116.66		0.00	0.00	116.66	3920.68
	07/11/06	4037.34	116.73		0.00	0.00	116.73	3920.61
	08/16/06	4037.34	116.74		0.00	0.00	116.74	3920.60
	09/07/06	4037.34	116.74		0.00	0.00	116.74	3920.60
	10/11/06	4037.34	116.80		0.00	0.00	116.80	3920.54
	11/08/06	4037.34	116.79		0.00	0.00	116.79	3920.55
	12/04/06	4037.34	116.90		0.00	0.00	116.90	3920.44
	01/04/07	4037.34	116.65		0.00	0.00	116.65	3920.69
	02/27/07	4037.34	116.71		0.00	0.00	116.71	3920.63
	03/20/07	4037.34	116.76		0.00	0.00	116.76	3920.58
	04/17/07	4037.34	116.61		0.00	0.00	116.61	3920.73
	05/07/07	4037.34	116.66		0.00	0.00	116.66	3920.68
	06/27/07	4037.34	116.59		0.00	0.00	116.59	3920.75

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	07/19/07	4037.34	116.65		0.00	0.00	116.65	3920.69
	08/21/07	4037.34	116.63		0.00	0.00	116.63	3920.71
	09/17/07	4037.34	116.70		0.00	0.00	116.70	3920.64
	10/16/07	4037.34	116.66		0.00	0.00	116.66	3920.68
	11/20/07	4037.34	116.78		0.00	0.00	116.78	3920.56
	12/21/07	4037.34	116.64		0.00	0.00	116.64	3920.70
	01/22/08	4037.34	116.88		0.00	0.00	116.88	3920.46
	02/27/08	4037.34	117.04		0.00	0.00	117.04	3920.30
	03/25/08	4037.34	116.88		0.00	0.00	116.88	3920.46
	04/29/08	4037.34	116.89		0.00	0.00	116.89	3920.45
	05/05/08	4037.34	116.82		0.00	0.00	116.82	3920.52
	06/10/08	4037.34	116.79		0.00	0.00	116.79	3920.55
	07/15/08	4037.34	116.88		0.00	0.00	116.88	3920.46
	08/19/08	4037.34	116.89		0.00	0.00	116.89	3920.45
	09/16/08	4037.34	117.17		0.00	0.00	117.17	3920.17
	10/15/08	4037.34	117.09		0.00	0.00	117.09	3920.25
	11/12/08	4037.34	116.82		0.00	0.00	116.82	3920.52
	12/11/08	4037.34	117.09		0.00	0.00	117.09	3920.25
	01/13/09	4037.34	117.28		0.00	0.00	117.28	3920.06
	02/11/09	4037.34	116.83		0.00	0.00	116.83	3920.51
	03/10/09	4037.34	116.78		0.00	0.00	116.78	3920.56
	04/13/09	4037.34	116.80		0.00	0.00	116.80	3920.54
	05/01/09	4037.34	116.77		0.00	0.00	116.77	3920.57
	06/08/09	4037.34	116.61		0.00	0.00	116.61	3920.73
	07/13/09	4037.34	116.78		0.00	0.00	116.78	3920.56
	08/10/09	4037.34	116.74		0.00	0.00	116.74	3920.60
	09/15/09	4037.34	116.62		0.00	0.00	116.62	3920.72
	10/06/09	4037.34	116.47		0.00	0.00	116.47	3920.87
	11/09/09	4037.34	116.64		0.00	0.00	116.64	3920.70
	12/23/09	4037.34	116.29		0.00	0.00	116.29	3921.05
	01/20/10	4037.34	116.27		0.00	0.00	116.27	3921.07
	02/09/10	4037.34	116.61		0.00	0.00	116.61	3920.73
	03/09/10	4037.34	116.32		0.00	0.00	116.32	3921.02
	04/12/10	4037.34	116.62		0.00	0.00	116.62	3920.72
	05/24/10	4037.34	116.37		0.00	0.00	116.37	3920.97
	06/14/10	4037.34	116.51		0.00	0.00	116.51	3920.83
	07/20/10	4037.34	116.59		0.00	0.00	116.59	3920.75
	08/11/10	4037.34	116.58		0.00	0.00	116.58	3920.76
	09/21/10	4037.34	116.49		0.00	0.00	116.49	3920.85
	10/20/10	4037.34	116.60		0.00	0.00	116.60	3920.74
	11/08/10	4037.34	116.52		0.00	0.00	116.52	3920.82
	12/07/10	4037.34	116.57		0.00	0.00	116.57	3920.77
	01/18/11	4037.34	116.38		0.00	0.00	116.38	3920.96
	02/08/11	4037.34	116.37		0.00	0.00	116.37	3920.97
	03/08/11	4037.34	116.21		0.00	0.00	116.21	3921.13
	04/13/11	4037.34	116.12		0.00	0.00	116.12	3921.22
	05/23/11	4037.34	116.35		0.00	0.00	116.35	3920.99
	06/28/11	4037.34	116.57		0.00	0.00	116.57	3920.77
	07/19/11	4037.34	116.49		0.00	0.00	116.49	3920.85
	08/31/11	4037.34	116.37		0.00	0.00	116.37	3920.97
	09/27/11	4037.34	116.38		0.00	0.00	116.38	3920.96
	10/24/11	4037.34	116.55		0.00	0.00	116.55	3920.79

APPENDIX B
HISTORICAL WATER LEVEL MEASUREMENTS
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

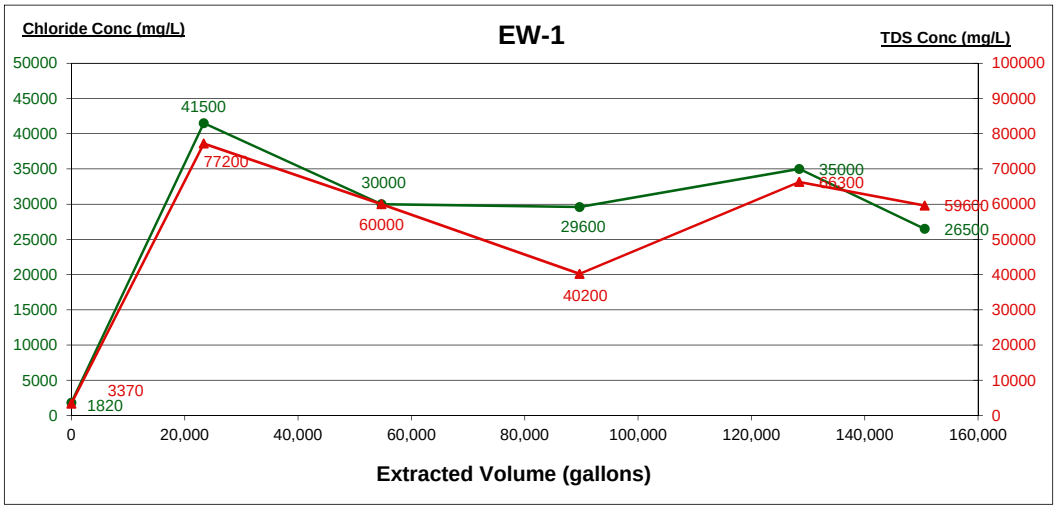
Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
	11/29/11	4037.34	116.63		0.00	0.00	116.63	3920.71
	12/23/11	4037.34	116.35		0.00	0.00	116.35	3920.99
	01/31/12	4037.34	116.35		0.00	0.00	116.35	3920.99
	02/29/12	4037.34	116.39		0.00	0.00	116.39	3920.95
	03/27/12	4037.34	116.30		0.00	0.00	116.30	3921.04
	04/18/12	4037.34	116.39		0.00	0.00	116.39	3920.95
	05/21/12	4037.34	116.54		0.00	0.00	116.54	3920.80
	07/17/12	4037.34	116.36		0.00	0.00	116.36	3920.98
	08/21/12	4037.34	116.33		0.00	0.00	116.33	3921.01
	09/17/12	4037.34	116.25		0.00	0.00	116.25	3921.09
	12/13/12	4037.34	116.42		0.00	0.00	116.42	3920.92
EW-1	06/27/07	4022.04	92.58		0.00	0.00	92.58	3929.46
	07/19/07	4022.04	93.27		0.00	0.00	93.27	3928.77
	08/31/11	4022.04						
	09/27/11	4022.04						
	10/24/11	4022.04	96.44		0.00	0.00	96.44	3925.60
	11/29/11	4022.04						
	12/23/11	4022.04						

Notes:
L.P.H. = Liquid Phase Hydrocarbon
Blank Fields Indicate No Data
* Wells re-surveyed for location and elevation of top of casing on 12/21/07.
** Off-Site wells

APPENDIX C

CONCENTRATION VS. VOLUME GRAPH

CONCENTRATION VS. EXTRACTION VOLUME GRAPH
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO



Notes:

TDS = Total Dissolved Solids

mg/L = Milligrams per liter

APPENDIX D

GROUNDWATER ANALYTICAL RESULTS SUMMARY-BTEX- 2007 THROUGH 2012

GROUNDWATER ANALYTICAL RESULTS SUMMARY - BTEX
2007 THROUGH 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Benzene (mg/L)*	*Toluene (mg/L)*	*Ethylbenzene (mg/L)*	*Xylenes (mg/L)*
NW WQ Std		0.01	0.75	0.75	0.62
EW-1	07/19/07	ND	ND	ND	ND
	05/06/08	ND	ND	ND	ND
	05/05/09	ND	ND	ND	ND
	05/25/10	ND	ND	ND	ND
	05/24/11	<0.002	<0.002	<0.002	<0.006
	10/25/11	<0.001	**0.003**	<0.001	<0.003
	07/17/12	<0.001	<0.001	<0.001	<0.003
MW-11	05/08/07	ND	ND	ND	ND
	05/06/08	0.009	ND	ND	ND
	05/05/09	0.02	ND	ND	ND
	05/25/10	0.039	ND	ND	ND
	05/24/11	0.0912	<0.002	<0.002	<0.006
	10/25/11	<0.001	<0.001	<0.001	<0.003
	07/17/12	<0.001	<0.001	<0.001	<0.003
MW-11 QA*	10/25/11	<0.001	<0.001	<0.001	<0.003
MW-12	05/08/07	ND	ND	ND	ND
	05/06/08	ND	ND	ND	ND
	05/05/09	ND	ND	ND	ND
	05/25/10	ND	ND	ND	ND
	05/24/11	<0.002	<0.002	<0.002	<0.006
	10/25/11	<0.001	<0.001	<0.001	<0.003
	07/17/12	<0.001	<0.001	<0.001	<0.003
MW-12 QA*	05/08/07	ND	ND	ND	ND
	05/06/08	ND	ND	ND	ND
	05/05/09	ND	ND	ND	ND
	05/25/10	ND	ND	ND	ND
	05/24/11	<0.002	<0.002	<0.002	<0.006
MW-13	05/08/07	ND	ND	ND	ND
	05/06/08	ND	ND	ND	ND
	05/05/09	ND	ND	ND	ND
	05/25/10	ND	ND	ND	ND
	05/24/11	<0.002	<0.002	<0.002	<0.006
	10/25/11	<0.001	<0.001	<0.001	<0.003
	07/17/12	<0.001	<0.001	<0.001	<0.003
MW-14	05/08/07	ND	ND	ND	ND
	05/06/08	ND	ND	ND	ND
	05/05/09	ND	ND	ND	ND
	05/25/10	ND	ND	ND	ND
	05/24/11	<0.002	<0.002	<0.002	<0.006
	10/25/11	<0.001	<0.001	<0.001	<0.003
	07/17/12	<0.001	<0.001	<0.001	<0.003

GROUNDWATER ANALYTICAL RESULTS SUMMARY - BTEX
2007 THROUGH 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Benzene (mg/L)*	*Toluene (mg/L)*	*Ethylbenzene (mg/L)*	*Xylenes (mg/L)*
NW WQ Std		0.01	0.75	0.75	0.62
MW-19	05/08/07	ND	ND	ND	ND
	05/06/08	ND	ND	ND	ND
	05/05/09	ND	ND	ND	ND
	05/25/10	ND	ND	ND	ND
	05/24/11	<0.002	<0.002	<0.002	<0.006
	10/25/11	<0.001	<0.001	<0.001	<0.003
	07/17/12	<0.001	<0.001	<0.001	<0.003

Notes:
mg/L = milligrams per liter
ND = Not detected at or above laboratory reporting limits.
NM WQ Std = New Mexico Water Quality Standard
* QA = Field duplicate sample analyses for evaluation of laboratory quality assurance/quality control (QA/QC) procedures.
Trip blanks used for sample shipping QA/QC reported non-detect for BTEX concentrations.
Blank fields indicate no data.

APPENDIX E

GROUNDWATER ANALYTICAL RESULTS SUMMARY-INORGANICS-2007 THROUGH 2012

GROUNDWATER ANALYTICAL RESULTS SUMMARY - INORGANICS
2007 THROUGH 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Carbonate Alkalinity (mg/L)*	*Bicarbonate Alkalinity (mg/L)*	*Total Alkalinity (mg/L)*	*Bromide (mg/L)*	*Chloride (mg/L)*	*Nitrate as N (mg/L)*	*Sulfate (mg/L)*	*Total Dissolved Solids (mg/L)*
NW WQ Std						250	10	600	1,000
EW-1	07/19/07					**1,820**			**3,370**
	05/06/08	ND	105	105	ND	**41,500**	ND	**1,150**	**77,200**
	05/05/09	ND	99	99	ND	**30,000**	ND	**1,110**	**60,000**
	05/25/10	ND	113	113	ND	**29,600**	ND	**852**	**40,200**
	05/24/11	<5.0	**110**	**110**	**8.8**	**32,300**	**0.57**	**865**	**2,510**
	10/25/11	<20	**116**	**116**	**25.6**	**35,000**	**3.9**	**923**	**66,300**
	07/17/12	<20	**108**	**108**	**38.0**	**26,500**	**6.1**	**746**	**59,600**
MW-11	05/08/07	ND	197	197	4.6	**3,570**	ND	440	**7,400**
	05/06/08	ND	168	168	8.18	**1,560**	ND	163	**4,140**
	05/05/09	ND	162	162	6.82	**1,140**	ND	149	**3,430**
	05/25/10	ND	139	139	ND	**1,010**	ND	142	**3,630**
	05/24/11	<5.0	**149**	**149**	**2.6**	**811**	3.6	**99.9**	**2,510**
	10/25/11	<20	**220**	**220**	**2.7**	**715**	4.9	**90.9**	**1,790**
	07/17/12	<20	**144**	**144**	**4.1**	**560**	7.3	55.3	**1,780**
MW-11QA*	10/25/11	<5.0	**208**	**208**	**2.5**	**659**	**6.1**	**84.6**	**1,910**
MW-12	05/08/07	ND	79.8	79.8	19.2	**61,700**	ND G	**1,690**	**107,000**
	05/06/08	ND	97	97	ND	**48,600**	ND, H	**1,600**	**88,500**
	05/05/09	ND	101	101	ND	**35,300**	1.79	**1,140**	**71,200**
	05/25/10	ND	106	106	ND	**59,300**	ND	**1,210**	**7,200**
	05/24/11	<20	**114**	**114**	**9.7**	**45,500**	**2.2**	**1,170**	**66,400**
	10/25/11	<20	**138**	**138**	**<1**	**32,200**	**3.0**	**1,020**	**55,900**
	07/17/12	<20	**122**	**122**	**32.6**	**25,000**	**3.3**	**716**	**57,200**
MW-12 QA*	05/08/07	ND	79.9	79.9	19.2	**50,200**	ND G	**1,630**	**104,000**
	05/06/08	ND	97	97	ND	**45,100**	ND, H	**1,610**	**84,300**
	05/05/09	ND	116	116	ND	**31,400**	1.94	**1,180**	**69,800**
	05/25/10	ND	108	108	ND	**47,700**	ND	**1,450**	**79,000**
	05/24/11	<5.0	**105**	**105**	**10.2**	**46,600**	**2**	**1,350**	**75,500**
MW-13	05/08/07	ND	209	209	0.9	217	**16**	249	**1,160**
	05/06/08	ND	201	201	ND	192	**11.9**	234	**1,270**
	05/05/09	ND	204	204	1.32	212	**15.9**	236	**1,400**
	05/25/10	ND	196	196	1.42	214	**17.8**	276	**1,500**
	05/24/11	<5.0	**217**	**218**	**1.4**	**235**	**15**	**267**	**1,120**
	10/25/11	<20	**765**	**765**	**1.3**	**233**	**18**	253	**1,090**
	07/17/12	<20	**340**	**340**	**2.4**	**230**	**15.2**	**239**	**1,240**
MW-14	05/08/07	ND	203	203	7.1	**1,000**	**10.7**	**1,010**	**4,990**
	05/06/08	ND	208	208	8.04	**658**	**10.1**	**904**	**3,760**
	05/05/09	ND	230	230	6.05	**576**	**11.8**	**774**	**3,740**
	05/25/10	ND	263	263	4.96	**566**	**13.7**	**1,030**	**2,430**
	05/24/11	<5.0	**276**	**276**	**4.2**	**527**	**16**	**1,110**	**2,980**
	10/25/11	<20	**390**	**390**	**3.4**	**408**	**20**	**848**	**2,350**
	07/17/12	<20	**314**	**314**	**1.1**	**382**	**16.0**	**812**	**2,430**

GROUNDWATER ANALYTICAL RESULTS SUMMARY - INORGANICS
2007 THROUGH 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Carbonate Alkalinity (mg/L)*	*Bicarbonate Alkalinity (mg/L)*	*Total Alkalinity (mg/L)*	*Bromide (mg/L)*	*Chloride (mg/L)*	*Nitrate as N (mg/L)*	*Sulfate (mg/L)*	*Total Dissolved Solids (mg/L)*
NW WQ Std						250	10	600	1,000
MW-19	05/08/07	ND	272	272	1.1	101	0.75	20.8	837
	05/06/08	ND	229	229	ND	114	1.06	29.3	**1,190**
	05/05/09	ND	241	241	0.836	105	0.944	26.7	597
	05/25/10	ND	245	245	0.97	108	0.867	33.2	**1,080**
	05/24/11	<5.0	**255**	**256**	**1.1**	**140**	**1.4**	**27.4**	**589**
	10/25/11	<20	**436**	**436**	<1	**122**	**2.2**	**32.9**	**523**
	07/17/12	<20	**635**	**635**	**1.4**	**113**	**2.6**	**27.8**	**585**

Notes:
mg/L = milligrams per liter
ND = Not detected at or above laboratory reporting limits.
NM WQ Std = New Mexico Water Quality Standard
* QA = Field duplicate sample analyses for evaluation of laboratory quality assurance/quality control (QA/QC) procedures.
Trip blanks used for sample shipping QA/QC reported non-detect for BTEX concentrations.
Blank fields indicate no data.

APPENDIX F

GROUNDWATER ANALYTICAL RESULTS SUMMARY-METALS-
2007 THROUGH 2012

GROUNDWATER ANALYTICAL RESULTS SUMMARY - METALS
2007 THROUGH 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Calcium (mg/L)*	*Magnesium (mg/L)*	*Potassium (mg/L)*	*Sodium (mg/L)*
EW-1	05/06/08	3,340	1,040	74.1	19,000
	05/05/09	3,680	1,110	58	21,700
	05/25/10	2,830	1,050	74.7	16,300
	05/24/11	**2,450**	**694**	**69.6**	**14,400**
	10/25/11	**2,400**	**624**	**42.7**	**11,300**
	07/17/12	**2,450**	**748.0**	**67.6**	**13,000**
MW-11	05/08/07	1,060	258	7.8	496
	05/06/08	615	166	8.62	204
	05/05/09	528	150	6	172
	05/25/10	332	105	4.44	118
	05/24/11	**298**	**83.7**	**6.61**	**103**
	10/25/11	**325**	**86**	**6**	**101**
	07/17/12	**215**	**64.2**	**3.6**	**80.6**
MW-11 QA*	10/25/11	**352**	**93**	**6**	**108**
MW-12	05/08/07	4,760	1,330	143	15,800
	05/06/08	3,880	1,030	84.3	24,000
	05/05/09	3,720	844	59.3	21,200
	05/25/10	2,490	700	42.4	14,300
	05/24/11	**3,260**	**794**	**79.1**	**15,100**
	10/25/11	**3,370**	**743**	**54**	**14,800**
	07/17/12	**3,420**	**812**	**56.5**	**11,400**
MW-12 QA*	05/08/07	5,040	1,430	146	32,800
	05/06/08	3,840	1,030	85.4	23,100
	05/05/09	3,760	872	54.8	22,200
	05/25/10	2,760	788	47.2	14,900
	05/24/11	**3,230**	**808**	**83.7**	**15,700**
MW-13	05/08/07	198	43.1	ND	72.4
	05/06/08	193	43.9	3.09	66.8
	05/05/09	226	46.8	3.1	74.4
	05/25/10	203	42.4	2.81	71.9
	05/24/11	**204**	**41.4**	<5.0	**73.5**
	10/25/11	**541**	**99.6**	**16.9**	**81.3**
	07/17/12	**252**	**53.4**	**6.24**	**71.5**
MW-14	05/08/07	656	197	5.7	65.3
	05/06/08	613	165	6.09	57.1
	05/05/09	648	176	5.74	51.3
	05/25/10	544	150	6.04	79.3
	05/24/11	**525**	**133**	<5.0	**57.7**
	10/25/11	**532**	**159**	**14.4**	**58.1**
	07/17/12	**455**	**137**	**9**	**49.8**

GROUNDWATER ANALYTICAL RESULTS SUMMARY - METALS
2007 THROUGH 2012
CONOCOPHILLIPS
MALJAMAR GAS PLANT
MALJAMAR, LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Calcium (mg/L)*	*Magnesium (mg/L)*	*Potassium (mg/L)*	*Sodium (mg/L)*
MW-20	05/06/08	1,690	571	24.7	983
	05/05/09	3,220	617	27.8	1,260
	05/25/10	1,850	664	21.5	1,020
	05/24/11	**2,050**	**632**	**53.8**	**1,000**
	10/25/11	**3,080**	**640**	**41.9**	**1,050**
	07/17/12	**2,240**	**654**	**39.6**	**1,070**

Notes:

mg/L = milligrams per liter

ND = Not detected at or above laboratory reporting limits.

NM WQ Std = New Mexico Water Quality Standard

* QA = Field duplicate sample analyses for evaluation of laboratory quality assurance/quality control (QA/QC) procedures.

Trip blanks used for sample shipping QA/QC reported non-detect for BTEX concentrations.

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