2017 ANNUAL GROUNDWATER REPORT

STATE GAS COM N#1
NMOCD Case#: 3RP-239-0
Meter Code: 71669
T31N, R12W, Sec16, Unit H

SITE DETAILS

Site Location: Latitude: 36.901094 N, Longitude: -108.096457 W.
Land Type: State
Operator: XTO Energy

SITE BACKGROUND

Environmental Remediation activities at the State Gas Com N#1 (Site) are being managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company, LLC's (EPCGP's) program methods. Currently, the Site is operated by XTO Energy and is active. Additionally, pipelines owned by Enterprise Products, Inc. are located near the Site, and an aboveground condensate tank owned by Enterprise Products, Inc. is located approximately 70 or 80 feet southwest of well MW-1.

The Site is located on State/Fee land. An initial site assessment was completed in March 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in May 1994, removing approximately 80 cubic yards (cy) of soil. Various site investigations have occurred since 1994. Monitoring wells were installed in 1995 (MW-1 through MW-4), 2000 (MW-5), 2006 (MW-7 though MW-9), and 2014 (SB-1 and MW-10 through MW-19). Air sparge (AS) test wells (TW-1 through TW-3) were installed in October-November 2017. Free product recovery has been periodically conducted since 1997. Free product was not observed at the site in 2017. Currently, groundwater sampling is conducted on a semi-annual basis.

AIR SPARGE TEST WELL INSTALLATION

In October 2017, the locations of three AS test wells were staked and surveyed for permitting and utility locating purposes. The test well advancement and installation activities were completed in accordance with the Air Sparge and Soil Vapor Extraction Feasibility Test Work Plan (Work Plan), submitted on June 28, 2017. NMOCD was notified of the start of test well installation activities on October 6, 2017. The three AS test wells (TW-1, TW-2, and TW-3) were completed in November 2017, for AS feasibility testing. . Ground surface and casing elevations of the new monitoring wells were surveyed in November 2017 by a licensed surveyor using state plane coordinates.

The three test wells were constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. Based on the depth to groundwater and soil conditions encountered, the well screens, each five-feet in length, were installed at depths ranging from approximately 83 feet bgs to 87 feet bgs, at least 10 feet below the field-apparent groundwater surface. A 5-foot seal of bentonite chips was

placed above the sand pack and hydrated, and the remaining annular space filled with bentonite grout. The wells were completed as stick-up wells with locking protective casings and a concrete surface completion. Four protective bollards were installed around each new well. Borehole logs and well construction diagrams are provided in Appendix A.

During the advancement of the test wells, the soil sample interval above the field-apparent water table exhibiting the highest photoionization detector (PID) reading was collected and placed in a 4-ounce jar for laboratory analysis. Soil samples were analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) according to United States Environmental Protection Agency (EPA) Method SW846 8021B, total petroleum hydrocarbons (TPH) using EPA Method 8015B-gasoline-range organics (GRO), diesel-range organics (DRO), and motor oil-range organics, and chloride according to EPA Method 300. Sample jars were stored in an ice-filled cooler and shipped under standard chain-of-custody protocol to TestAmerica Laboratories, Inc. in Pensacola, Florida (TestAmerica). The soil sample analytical report is provided in Appendix B.

Test well development was performed using a well swab and disposable bailer until all sediment was removed and visibly clear groundwater was observed. Purged groundwater was containerized and transported to Basin Disposal, Inc. in Bloomfield, New Mexico for disposal. Soil drums were staged on site for later disposal at Envirotech, Inc. (Envirotech), located south of Bloomfield, New Mexico. Disposal documentation is contained in Appendix C.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to the OCD on May 30, 2017, and November 6, 2017, prior to initiating groundwater sampling activities at the Site. Copies of the 2017 NMOCD notifications are provided in Appendix D. Groundwater monitoring and sampling was completed on June 6, and November 10, 2017. During each sampling event, water levels were gauged from monitoring wells MW-1 through MW-6 and MW-9 through MW-19. Groundwater samples were collected from monitoring wells MW-1, MW-3, MW-4, MW-6, MW-9, MW-15, MW-16, MW-18, and MW-19 in June 2017 and monitoring wells MW-1, MW-3, MW-4, MW-6, MW-9, MW-13, MW-14, MW-15, MW-16, MW-18, and MW-19 in November 2017.

Groundwater samples were collected from selected monitoring wells using HydraSleeve™ (HydraSleeve) no-purge passive groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells using a suspension tether and stainless steel weights to collect a sample from the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida where they were analyzed for BTEX. As requested by the NMOCD on November 13, 2017, BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260 during the November sampling event. The unused sample water was combined in a waste container and taken to Basin Disposal, Inc. for disposal. Waste disposal documentation is included as Appendix C.

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively. When free product was present, static water level elevations were corrected for measurable thicknesses of free product (specific gravity of 0.75). Soil data is summarized in Table 3.

SITE MAPS

Groundwater analytical results (Figures 1 and 3) and groundwater elevation contour maps (Figures 2 and 4) summarize results of the 2017 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The soil and groundwater analytical lab reports are included as Appendices B and E, respectively.

SOIL RESULTS

- Soil samples were collected from the borings for test wells TW-1, TW-2, and TW-3. The concentration of Total BTEX exceeded the NMOCD 2013 Pit Rule Guidance criteria in sample TW-1 (68-69'). All other samples for benzene, toluene, ethylbenzene, total xylenes, and total BTEX were non-detect or below the respective criteria.

- The concentrations of GRO + DRO exceeded the 2013 Pit Rule Guidance (1,000 mg/kg) at TW-1 (68-69'), TW-2 (19-20'), TW-2 (41-42'), and TW-2 (54-55'). All other samples analyzed for GRO + DRO were below criteria.

- TPH exceeded the 2013 Pit Rule Guidance (2,500 mg/kg) at TW-1 (68-69'), with a concentration of 4,900 mg/kg. All other samples were non-detect or below criteria for TPH.

- Chloride was detected at concentrations below the 2013 Pit Rule Guidance (10,000 mg/kg) in each of the soil samples submitted for analysis.

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GROUND WATER RESULTS

- The groundwater flow direction is generally to the south-southeast at the Site (see Figures 2 and 4).

- Groundwater samples collected in 2017 from MW-1, MW-3, MW-4, MW-6, MW-13, MW-16, MW-18, and MW-19 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Benzene was not detected in the remaining groundwater samples collected from site monitoring wells in 2017.

- Groundwater samples collected in 2017 from MW-1, MW-4, and MW-6 exceeded the NMWQCC standard (750 µg/L) for toluene in groundwater. Toluene was either not detected or detected below the NMWQCC standard in the remaining groundwater samples collected from site monitoring wells in 2017.

- Groundwater samples collected in 2017 from MW-1, MW-3, and MW-6 exceeded the NMWQCC standard (750 µg/L) for ethylbenzene in groundwater. Ethylbenzene was either not detected or detected below the NMWQCC standard in groundwater samples collected from site monitoring wells in 2017.

- Groundwater samples collected in 2017 from MW-1, MW-3, MW-4, MW-6 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Total xylenes were either not detected or detected below the NMWQCC standard in groundwater samples collected from site monitoring wells in 2017.

PLANNED FUTURE ACTIVITIES

EPCGP will continue to conduct semi-annual groundwater monitoring events through 2018. Monitoring wells sampled during these events will be analyzed for BTEX constituents using EPA Method 8260.

Pursuant to the Work Plan, aquifer slug testing, and AS/Soil Vapor Extraction pilot testing activities are planned to occur in Spring 2018. Notifications will be sent to the NMOCD ahead of these planned activities.

The results will be summarized in the 2018 Annual report for the Site, submitted in early 2019.

TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

State Gas Com N#1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	10/17/95	14200	15600	1090	11000
MW-1	12/03/96	17200	15200	673	6670
MW-1	03/07/97	16900	16600	904	8420
MW-1	09/15/05	17300	10700	1560	19600
MW-1	09/27/06	15100	9990	1150	10700
MW-1	09/18/07	13800	10100	2260	21200
MW-1	09/08/08	11700	7560	815	7740
MW-1	08/26/09	12600	8470	973	8670
MW-1	09/29/10	10300	9470	1320	12500
MW-1	09/29/11	12300	7800	907	7750
MW-1	06/07/13	13000	7200	580	6700
MW-1	09/12/13	13000	5300	460	6600
MW-1	12/13/13	10000	6900	610	6400
MW-1	04/05/14	10000	5300	360	2000
MW-1	10/21/14	14000	4900	520	6400
MW-1	05/27/15	12000	9400	890	7400
MW-1	11/22/15	13000	6800	700	6500
MW-1	04/15/16	14000	5200	730	7400
MW-1	10/11/16	13000	3000	680	6500
MW-1	06/06/17	12000	3000	790	6500
MW-1	11/10/17	11000	2800	750	6400
MW-2	12/07/95	8540	18900	6230	9240
MW-2	12/03/96	21700	5000	967	8310
MW-2	03/07/97	22100	5680	992	8360
MW-2	09/15/05	13700	2770	762	8610
MW-2	09/27/06	13800	2150	880	8130
MW-2	09/18/07	10100	1730	1200	12700
MW-2	09/08/08	9120	1610	552	6380
MW-2	09/29/10	15600	1570	779	7730
MW-2	09/29/11	12900	1270	838	6940
MW-2	06/07/13	15000	1600	630	7000
MW-2	09/12/13	14000	1500	550	6300
MW-2	12/13/13	11000	7200	620	6500
MW-2	04/05/14	680	440	37 J	400
MW-2	10/21/14	15000	1500	620	6700
MW-2	05/27/15	14000	1700	650	7200
MW-2	11/22/15	17000	1900	680	7200

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State Gas Com N#1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	12/07/95	18000	3760	1050	7070
MW-3	12/03/96	17700	7310	983	7200
MW-3	03/07/97	17700	7780	1020	7550
MW-3	09/08/08	70.3	1.5	3.3	19.1
MW-3	08/26/09	20100	434	936	4690
MW-3	09/29/10	23600	219 J	771	3480
MW-3	09/29/11	18500	163	906	4520
MW-3	06/07/13	24000	J100	540	2700
MW-3	09/12/13	22000	97 J	590	2700
MW-3	12/13/13	19000	85 J	620	2900
MW-3	04/05/14	24000	<380	570 J	2400
MW-3	10/21/14	27000	98 J	770	2900
MW-3	05/27/15	25000	230 J	950	5900
MW-3	11/22/15	54000	<5000	17000	66000
MW-3	06/06/17	22000	<1300	1100	8500
MW-3	11/10/17	14000	310	800	7000
MW-4	12/07/95	20300	19600	1040	8880
MW-4	12/03/96	23600	19600	1000	8600
MW-4	03/07/97	24800	20100	1040	9080
MW-4	09/10/01	17000	14000	610	6700
MW-4	09/04/02	17800	13900	750	10870
MW-4	09/14/03	24000	30800	4670	73200
MW-4	09/16/04	26300	18500	1870	15200
MW-4	09/15/05	18600	16900	1120	12800
MW-4	09/27/06	19800	14200	978	12500
MW-4	09/18/07	21100	15400	1560	17000
MW-4	09/08/08	17000	12700	598	11700
MW-4	08/26/09	17000	14400	934	11000
MW-4	09/29/10	19400	13100	789	9500
MW-4	09/29/11	18700	12500	1020	11400
MW-4	06/07/13	21000	13000	290	8400
MW-4	09/12/13	18000	11000	450	7300
MW-4	12/13/13	17000	11000	620	8100
MW-4	04/05/14	12000	57 J	350	1600
MW-4	10/21/14	21000	13000	520	8400
MW-4	05/27/15	21000	13000	700	9200
MW-4	11/22/15	21000	13000	670	8800
MW-4	04/15/16	23000	14000	960	11000
MW-4	10/11/16	22000	13000	730	8800
MW-4	06/06/17	26000	16000	500	12000
MW-4	11/10/17	20000	13000	630	9200

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

State Gas Com N#1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-5	08/30/00	27000	570	930	8600
MW-5	09/10/01	16000	100	720	4600
MW-5	09/04/02	21100	190	1310	5560
MW-5	09/14/03	23100	157	2480	11300
MW-5	09/16/04	29400	<25	1320	1690
MW-5	09/15/05	22800	14	1160	1620
MW-5	09/27/06	26000	<100	1440	1800
MW-5	09/18/07	26300	<100	914	1590
MW-5	09/08/08	21600	<100	522	1580
MW-5	08/26/09	19800	63.2 J	1280	2470
MW-5	09/29/10	24600	<200	1330	4390
MW-5	09/29/11	20600	8.9 J	1000	3370
MW-5	06/07/13	16000	<60	1000	5400
MW-6	12/20/01	5000	11000	420	4600
MW-6	09/29/10	6950	14700	978	8990
MW-6	09/29/11	5590	10200	991	8670
MW-6	06/07/13	3400	4700	370	4900
MW-6	09/12/13	4500	7700	640	6300
MW-6	12/13/13	3600	5600	610	6000
MW-6	04/05/14	19000	13000	720	9100
MW-6	10/21/14	2900	3300	380	5400
MW-6	05/27/15	4000	7000	630	6200
MW-6	11/22/15	6100	11000	950	8200
MW-6	04/15/16	5700	11000	870	7600
MW-6	10/11/16	5200	7800	860	6600
MW-6	06/06/17	5700	9000	910	7300
MW-6	11/10/17	4500	7800	750	6500
MW-7	04/15/08	<2	<2	<2	<6
MW-7	08/26/09	11200	4930	916	5760
MW-7	09/29/10	13900	8690	982	7130
MW-7	09/29/11	9280	3550	725	4270
MW-7	06/07/13	Well Destroyed			

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

State Gas Com N#1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-9	04/15/08	<2	<2	<2	<6
MW-9	09/08/08	0.95 J	<1	<1	1.3 J
MW-9	08/26/09	1.2	0.69 J	0.35J	2.7
MW-9	09/29/10	0.79 J	17 J	<2	2.9 J
MW-9	09/29/11	0.89 J	0.87 J	<1	<2
MW-9	06/07/13	<0.14	<0.30	<0.20	<0.23
MW-9	09/12/13	<0.14	<0.30	<0.20	<0.23
MW-9	12/13/13	<0.20	<0.38	<0.20	<0.65
MW-9	04/05/14	51	89	8	67
MW-9	10/21/14	<0.38	<0.70	<0.50	<1.6
MW-9	05/27/15	<1.0	<5.0	<1.0	<5.0
MW-9	11/22/15	<1.0	<5.0	<1.0	<5.0
MW-9	04/15/16	<1.0	<5.0	<1.0	<5.0
MW-9	10/11/16	<1.0	<5.0	<1.0	<5.0
MW-9	06/06/17	<1.0	<5.0	<1.0	<5.0
MW-9	11/10/17	<1.0	<1.0	<1.0	<10
MW-12	05/27/15	0.86 J	<5.0	<1.0	<5.0
MW-12	11/22/15	42	<5.0	11	9.5
MW-13	05/27/15	190	17	35	100
MW-13	11/22/15	260	9.6	33	38
MW-13	04/15/16	130	6.2	19	<5.0
MW-13	10/11/16	110	<10	14	11
MW-13	11/10/17	21	1.6	12	<10
MW-14	05/27/15	<1.0	<5.0	<1.0	<5.0
MW-14	11/22/15	<1.0	<5.0	<1.0	<5.0
MW-14	10/11/16	<1.0	<5.0	<1.0	<5.0
MW-14	11/10/17	<1.0	<1.0	<1.0	<10
MW-15	05/27/15	<1.0	<5.0	<1.0	<5.0
MW-15	11/22/15	<1.0	<5.0	<1.0	<5.0
MW-15	04/15/16	NS	NS	NS	NS
MW-15	10/11/16	<1.0	<5.0	<1.0	<5.0
MW-15	06/06/17	<1.0	<5.0	<1.0	<5.0
MW-15	11/10/17	<1.0	<1.0	<1.0	<10

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

State Gas Com N#1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-16	05/27/15	1.9	<5.0	<1.0	17
MW-16	11/22/15	190	9.9	4.1	96
MW-16	04/15/16	480	17	83	390
MW-16	10/11/16	82	14	16	140
MW-16	06/06/17	26	<5.0	4.3	13
MW-16	11/10/17	11	<1.0	<1.0	<10
MW-17	05/27/15	88	<5.0	6.8	15
MW-17	11/22/15	9.9	<5.0	15	<5.0
MW-18	05/27/15	120	12	30	27
MW-18	11/22/15	470	<10	100	11
MW-18	04/15/16	110	<10	16	13
MW-18	10/11/16	840	<25	200	<25
MW-18	06/06/17	100	<5.0	43	17
MW-18	11/10/17	60	<1.0	37	<10
MW-19	05/27/15	12000	<100	410	200
MW-19	11/22/15	12000	<250	470	<250
MW-19	04/15/16	8400	<50	360	<50
MW-19	10/11/16	11000	<250	470	<250
MW-19	06/06/17	9000	<250	230	<250
MW-19	11/10/17	16	<1.0	17	<10

Notes:

The groundwater monitoring dates for each monitoring well where no groundwater samples were collected and analyzed have been omitted.

"µg/L" = micrograms per liter

Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.

"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.

"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-1	10/17/95	6122.33	76.08	NR		6046.25
MW-1	12/03/96	6122.33	77.02	76.09	0.93	6046.00
MW-1	03/07/97	6122.33	77.20	76.12	1.08	6045.94
MW-1	01/16/01	6122.33	77.96	77.95	0.01	6044.37
MW-1	01/24/01	6122.33	78.28	78.27	0.01	6044.05
MW-1	01/31/01	6122.33	78.16	78.15	0.01	6044.17
MW-1	02/19/01	6122.33	78.19	78.18	0.01	6044.14
MW-1	03/05/01	6122.33	78.34	NR		6043.99
MW-1	06/05/01	6122.33	77.71	NR		6044.62
MW-1	06/15/01	6122.33	77.83	NR		6044.50
MW-1	07/13/01	6122.33	76.52	76.51	0.01	6045.81
MW-1	07/20/01	6122.33	76.47	76.46	0.01	6045.86
MW-1	08/01/01	6122.33	77.22	NR		6045.11
MW-1	08/08/01	6122.33	76.37	NR		6045.96
MW-1	08/16/01	6122.33	76.35	NR		6045.98
MW-1	08/20/01	6122.33	76.28	NR		6046.05
MW-1	09/05/01	6122.33	76.20	NR		6046.13
MW-1	09/19/01	6122.33	76.14	NR		6046.19
MW-1	09/26/01	6122.33	76.09	NR		6046.24
MW-1	10/03/01	6122.33	76.06	NR		6046.27
MW-1	10/11/01	6122.33	76.04	NR		6046.29
MW-1	01/23/02	6122.33	76.08	76.07	0.01	6046.25
MW-1	05/17/02	6122.33	76.17	NR		6046.16
MW-1	06/07/02	6122.33	76.21	NR		6046.12
MW-1	09/04/02	6122.33	76.21	76.20	0.01	6046.12
MW-1	12/17/02	6122.33	76.63	NR		6045.70
MW-1	06/26/03	6122.33	75.76	ND		6046.57
MW-1	09/14/03	6122.33	75.79	75.77	0.02	6046.55
MW-1	12/09/03	6122.33	75.62	ND		6046.71
MW-1	03/15/04	6122.33	75.22	ND		6047.11
MW-1	06/17/04	6122.33	74.84	ND		6047.49
MW-1	09/16/04	6122.33	74.43	ND		6047.90
MW-1	12/20/04	6122.33	74.21	ND		6048.12
MW-1	03/17/05	6122.33	74.23	ND		6048.10
MW-1	06/17/05	6122.33	74.15	ND		6048.18
MW-1	09/15/05	6122.33	74.09	ND		6048.24
MW-1	12/22/05	6122.33	74.02	ND		6048.31
MW-1	03/27/06	6122.33	74.17	ND		6048.16
MW-1	06/19/06	6122.33	74.34	ND		6047.99
MW-1	09/27/06	6122.33	74.65	ND		6047.68
MW-1	12/20/06	6122.33	74.81	ND		6047.52
MW-1	03/28/07	6122.33	75.07	ND		6047.26

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-1	06/14/07	6122.33	75.09	ND		6047.24
MW-1	09/18/07	6122.33	74.92	ND		6047.41
MW-1	12/17/07	6122.33	74.79	ND		6047.54
MW-1	03/05/08	6122.33	74.63	ND		6047.70
MW-1	06/12/08	6122.33	74.52	ND		6047.81
MW-1	09/08/08	6122.33	74.55	ND		6047.78
MW-1	12/03/08	6122.33	74.62	ND		6047.71
MW-1	03/10/09	6122.33	74.56	ND		6047.77
MW-1	06/03/09	6122.33	74.59	ND		6047.74
MW-1	08/26/09	6122.33	74.76	ND		6047.57
MW-1	11/05/09	6122.33	74.66	ND		6047.67
MW-1	02/11/10	6122.33	74.77	ND		6047.56
MW-1	05/21/10	6122.33	75.10	ND		6047.23
MW-1	09/29/10	6122.33	75.45	75.43	0.02	6046.89
MW-1	11/02/10	6122.33	75.82	ND		6046.51
MW-1	02/02/11	6122.33	75.24	ND		6047.09
MW-1	05/04/11	6122.33	74.55	ND		6047.78
MW-1	09/29/11	6122.33	73.57	ND		6048.76
MW-1	11/11/11	6122.33	73.46	ND		6048.87
MW-1	02/16/12	6122.33	73.38	ND		6048.95
MW-1	05/08/12	6122.33	73.53	ND		6048.80
MW-1	06/07/13	6122.33	74.82	ND		6047.51
MW-1	09/12/13	6122.33	75.00	ND		6047.33
MW-1	12/13/13	6122.33	74.95	ND		6047.38
MW-1	04/05/14	6122.33	74.99	ND		6047.34
MW-1	10/21/14	6122.33	74.77	ND		6047.56
MW-1	05/27/15	6122.33	74.57	ND		6047.76
MW-1	11/22/15	6122.33	77.17	ND		6045.16
MW-1	04/15/16	6122.33	73.37	ND		6048.96
MW-1	10/11/16	6122.33	70.08	ND		6052.25
MW-1	06/06/17	6122.33	71.77	ND		6050.56
MW-1	11/10/17	6122.33	71.11	ND		6051.22

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-2	12/07/95	6120.93	75.50	NR		6045.43
MW-2	12/03/96	6120.93	76.66	75.45	1.21	6045.17
MW-2	03/07/97	6120.93	76.88	75.51	1.37	6045.07
MW-2	01/16/01	6120.93	78.26	77.43	0.83	6043.29
MW-2	01/24/01	6120.93	79.06	78.72	0.34	6042.12
MW-2	01/30/01	6120.93	78.45	78.44	0.01	6042.48
MW-2	04/02/01	6120.93	78.36	NR		6042.57
MW-2	06/05/01	6120.93	76.46	NR		6044.47
MW-2	06/15/01	6120.93	76.54	NR		6044.39
MW-2	07/13/01	6120.93	76.56	NR		6044.37
MW-2	07/20/01	6120.93	76.48	NR		6044.45
MW-2	08/01/01	6120.93	76.51	NR		6044.42
MW-2	08/08/01	6120.93	76.50	NR		6044.43
MW-2	08/16/01	6120.93	76.46	NR		6044.47
MW-2	08/20/01	6120.93	76.43	NR		6044.50
MW-2	09/05/01	6120.93	76.38	NR		6044.55
MW-2	09/19/01	6120.93	76.34	NR		6044.59
MW-2	09/26/01	6120.93	76.35	NR		6044.58
MW-2	10/03/01	6120.93	76.31	NR		6044.62
MW-2	10/11/01	6120.93	76.29	NR		6044.64
MW-2	01/23/02	6120.93	76.08	76.07	0.01	6044.85
MW-2	05/17/02	6120.93	76.17	NR		6044.76
MW-2	06/07/02	6120.93	76.21	NR		6044.72
MW-2	09/04/02	6120.93	76.21	76.20	0.01	6044.72
MW-2	12/17/02	6120.93	76.63	NR		6044.30
MW-2	03/20/03	6120.93	76.32	76.28	0.04	6044.64
MW-2	06/26/03	6120.93	76.22	76.19	0.03	6044.73
MW-2	09/14/03	6120.93	76.35	76.31	0.04	6044.61
MW-2	12/09/03	6120.93	76.22	76.15	0.07	6044.76
MW-2	03/15/04	6120.93	76.14	76.07	0.07	6044.84
MW-2	06/17/04	6120.93	75.98	75.93	0.05	6044.98
MW-2	09/16/04	6120.93	76.66	75.72	0.94	6044.97
MW-2	12/20/04	6120.93	75.50	75.46	0.04	6045.46
MW-2	03/17/05	6120.93	75.37	ND		6045.56
MW-2	06/17/05	6120.93	75.72	ND		6045.21
MW-2	09/15/05	6120.93	75.38	ND		6045.55
MW-2	12/22/05	6120.93	75.41	ND		6045.52
MW-2	03/27/06	6120.93	75.42	ND		6045.51
MW-2	06/19/06	6120.93	75.56	ND		6045.37
MW-2	09/27/06	6120.93	75.85	ND		6045.08
MW-2	12/20/06	6120.93	75.92	ND		6045.01
MW-2	03/28/07	6120.93	76.12	ND		6044.81

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-2	06/14/07	6120.93	76.29	ND		6044.64
MW-2	09/18/07	6120.93	76.24	ND		6044.69
MW-2	12/17/07	6120.93	76.22	ND		6044.71
MW-2	03/05/08	6120.93	76.13	ND		6044.80
MW-2	06/12/08	6120.93	76.12	ND		6044.81
MW-2	09/08/08	6120.93	76.10	ND		6044.83
MW-2	12/03/08	6120.93	76.15	ND		6044.78
MW-2	03/10/09	6120.93	76.13	ND		6044.80
MW-2	06/03/09	6120.93	76.35	76.24	0.11	6044.66
MW-2	08/26/09	6120.93	76.43	76.36	0.07	6044.55
MW-2	11/05/09	6120.93	76.58	ND		6044.35
MW-2	02/11/10	6120.93	76.52	ND		6044.41
MW-2	05/21/10	6120.93	76.70	ND		6044.23
MW-2	09/29/10	6120.93	76.88	ND		6044.05
MW-2	11/02/10	6120.93	76.98	ND		6043.95
MW-2	02/02/11	6120.93	76.83	ND		6044.10
MW-2	05/04/11	6120.93	76.69	ND		6044.24
MW-2	09/29/11	6120.93	76.18	ND		6044.75
MW-2	11/11/11	6120.93	76.13	ND		6044.80
MW-2	02/16/12	6120.93	75.92	ND		6045.01
MW-2	05/08/12	6120.93	75.98	ND		6044.95
MW-2	06/07/13	6120.93	76.88	ND		6044.05
MW-2	09/12/13	6120.93	77.07	ND		6043.86
MW-2	12/13/13	6120.93	77.08	ND		6043.85
MW-2	04/05/14	6120.93	77.08	ND		6043.85
MW-2	10/21/14	6120.93	77.18	ND		6043.75
MW-2	05/27/15	6120.93	77.05	ND		6043.88
MW-2	11/22/15	6120.93	76.90	ND		6044.03
MW-2	04/15/16	6120.93	76.54	ND		6044.39
MW-2	10/11/16	6120.93	76.00	ND		6044.93
MW-2	06/06/17	6120.93	75.42	ND		6045.51
MW-2	11/10/17	6120.93	74.97	ND		6045.96

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-3	12/07/95	6120.42	75.03	NR		6045.39
MW-3	12/03/96	6120.42	76.10	75.26	0.84	6044.95
MW-3	03/07/97	6120.42	75.42	75.19	0.23	6045.17
MW-3	10/03/00	6120.42	77.12	76.97	0.15	6043.41
MW-3	12/20/00	6120.42	77.00	NR		6043.42
MW-3	01/10/01	6120.42	76.90	NR		6043.52
MW-3	02/19/01	6120.42	77.08	77.06	0.02	6043.35
MW-3	03/05/01	6120.42	77.20	77.17	0.03	6043.24
MW-3	04/02/01	6120.42	77.11	77.09	0.02	6043.32
MW-3	06/05/01	6120.42	77.11	NR		6043.31
MW-3	06/15/01	6120.42	76.50	76.44	0.06	6043.96
MW-3	07/13/01	6120.42	77.17	77.14	0.03	6043.27
MW-3	07/20/01	6120.42	77.14	77.13	0.01	6043.28
MW-3	08/01/01	6120.42	76.47	76.38	0.09	6044.01
MW-3	08/08/01	6120.42	77.15	NR		6043.27
MW-3	08/16/01	6120.42	77.15	NR		6043.27
MW-3	08/20/01	6120.42	77.13	NR		6043.29
MW-3	09/05/01	6120.42	77.08	NR		6043.34
MW-3	09/19/01	6120.42	77.11	NR		6043.31
MW-3	09/26/01	6120.42	77.10	NR		6043.32
MW-3	10/03/01	6120.42	77.08	NR		6043.34
MW-3	10/11/01	6120.42	77.09	NR		6043.33
MW-3	11/21/01	6120.42	77.18	77.15	0.03	6043.26
MW-3	12/13/01	6120.42	77.12	77.10	0.02	6043.31
MW-3	12/21/01	6120.42	76.88	NR		6043.54
MW-3	12/28/01	6120.42	75.99	75.97	0.02	6044.44
MW-3	01/04/02	6120.42	77.03	NR	0.00	6043.39
MW-3	01/07/02	6120.42	77.15	77.14	0.01	6043.27
MW-3	01/23/02	6120.42	76.94	76.93	0.01	6043.48
MW-3	01/31/02	6120.42	77.01	77.00	0.01	6043.41
MW-3	02/07/02	6120.42	77.17	77.16	0.01	6043.25
MW-3	02/14/02	6120.42	77.03	77.02	0.01	6043.39
MW-3	02/20/02	6120.42	77.12	77.11	0.01	6043.30
MW-3	03/06/02	6120.42	76.97	NR		6043.45
MW-3	03/11/02	6120.42	76.94	NR		6043.48
MW-3	03/21/02	6120.42	77.15	NR		6043.27
MW-3	03/28/02	6120.42	77.04	NR		6043.38
MW-3	04/03/02	6120.42	75.99	75.95	0.04	6044.46
MW-3	04/12/02	6120.42	77.15	NR		6043.27
MW-3	04/19/02	6120.42	77.09	NR		6043.33
MW-3	04/25/02	6120.42	77.08	NR		6043.34
MW-3	05/03/02	6120.42	77.18	NR		6043.24

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-3	05/10/02	6120.42	77.12	NR		6043.30
MW-3	05/17/02	6120.42	77.10	NR		6043.32
MW-3	06/07/02	6120.42	76.07	76.03	0.04	6044.38
MW-3	09/04/02	6120.42	76.33	NR		6044.09
MW-3	12/17/02	6120.42	75.85	75.81	0.04	6044.60
MW-3	03/20/03	6120.42	76.32	76.28	0.04	6044.13
MW-3	06/26/03	6120.42	76.22	76.19	0.03	6044.22
MW-3	09/14/03	6120.42	76.36	76.31	0.05	6044.09
MW-3	12/09/03	6120.42	76.22	76.15	0.07	6044.25
MW-3	03/15/04	6120.42	76.13	76.07	0.06	6044.33
MW-3	06/17/04	6120.42	76.02	75.98	0.04	6044.43
MW-3	09/16/04	6120.42	75.75	75.72	0.03	6044.69
MW-3	12/20/04	6120.42	75.50	75.46	0.04	6044.95
MW-3	03/17/05	6120.42	75.43	75.39	0.04	6045.02
MW-3	06/17/05	6120.42	75.43	ND		6044.99
MW-3	09/15/05	6120.42	75.49	ND		6044.93
MW-3	12/22/05	6120.42	75.51	ND		6044.91
MW-3	03/27/06	6120.42	75.54	ND		6044.88
MW-3	06/19/06	6120.42	75.63	ND		6044.79
MW-3	09/27/06	6120.42	75.88	ND		6044.54
MW-3	12/20/06	6120.42	75.77	ND		6044.65
MW-3	03/28/07	6120.42	75.92	ND		6044.50
MW-3	06/14/07	6120.42	76.29	ND		6044.13
MW-3	09/18/07	6120.42	76.21	ND		6044.21
MW-3	12/17/07	6120.42	75.20	ND		6045.22
MW-3	03/05/08	6120.42	76.10	ND		6044.32
MW-3	06/12/08	6120.42	76.22	ND		6044.20
MW-3	09/08/08	6120.42	76.14	ND		6044.28
MW-3	12/03/08	6120.42	76.23	ND		6044.19
MW-3	03/10/09	6120.42	76.20	ND		6044.22
MW-3	06/03/09	6120.42	76.43	ND		6043.99
MW-3	08/26/09	6120.42	76.38	ND		6044.04
MW-3	11/05/09	6120.42	76.53	ND		6043.89
MW-3	02/11/10	6120.42	76.41	ND		6044.01
MW-3	05/21/10	6120.42	76.60	ND		6043.82
MW-3	09/29/10	6120.42	76.80	ND		6043.62
MW-3	11/02/10	6120.42	76.97	ND		6043.45
MW-3	02/02/11	6120.42	76.85	ND		6043.57
MW-3	05/04/11	6120.42	76.81	ND		6043.61
MW-3	09/29/11	6120.42	76.41	76.39	0.02	6044.02
MW-3	11/11/11	6120.42	76.49	ND		6043.93
MW-3	02/16/12	6120.42	76.33	ND		6044.09

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-3	05/08/12	6120.42	76.35	ND		6044.07
MW-3	06/07/13	6120.42	76.91	ND		6043.51
MW-3	09/12/13	6120.42	77.10	ND		6043.32
MW-3	12/13/13	6120.42	77.09	ND		6043.33
MW-3	04/05/14	6120.42	77.07	ND		6043.35
MW-3	10/21/14	6120.42	77.24	ND		6043.18
MW-3	05/27/15	6120.42	77.12	ND		6043.30
MW-3	11/22/15	6120.42	77.08	ND		6043.34
MW-3	04/15/16	6120.42	76.73	ND		6043.69
MW-3	10/11/16	6120.42	76.61	76.36	0.25	6043.99
MW-3	06/06/17	6120.42	75.95	ND		6044.47
MW-3	11/10/17	6120.42	75.57	ND		6044.85

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-4	12/07/95	6121.10	75.81	NR		6045.29
MW-4	12/03/96	6121.10	75.80	75.48	0.32	6045.54
MW-4	03/07/97	6121.10	75.92	NR		6045.18
MW-4	06/05/01	6121.10	76.48	NR		6044.62
MW-4	07/13/01	6121.10	76.59	NR		6044.51
MW-4	08/16/01	6121.10	76.48	NR		6044.62
MW-4	09/10/01	6121.10	76.45	NR		6044.65
MW-4	12/04/01	6121.10	77.29	NR		6043.81
MW-4	01/07/02	6121.10	76.31	76.30	0.01	6044.79
MW-4	01/23/02	6121.10	75.96	75.95	0.01	6045.14
MW-4	01/31/02	6121.10	76.02	76.01	0.01	6045.08
MW-4	02/07/02	6121.10	76.22	76.21	0.01	6044.88
MW-4	02/14/02	6121.10	76.06	76.05	0.01	6045.04
MW-4	02/20/02	6121.10	76.10	76.09	0.01	6045.00
MW-4	05/17/02	6121.10	76.11	NR		6044.99
MW-4	09/04/02	6121.10	76.28	NR		6044.82
MW-4	12/17/02	6121.10	76.04	NR		6045.06
MW-4	06/26/03	6121.10	76.24	ND		6044.86
MW-4	09/14/03	6121.10	76.28	ND		6044.82
MW-4	12/09/03	6121.10	76.07	ND		6045.03
MW-4	03/15/04	6121.10	76.05	ND		6045.05
MW-4	06/17/04	6121.10	75.86	ND		6045.24
MW-4	09/16/04	6121.10	75.54	ND		6045.56
MW-4	12/20/04	6121.10	75.40	ND		6045.70
MW-4	03/17/05	6121.10	75.27	ND		6045.83
MW-4	06/17/05	6121.10	75.32	ND		6045.78
MW-4	09/15/05	6121.10	75.26	ND		6045.84
MW-4	12/22/05	6121.10	75.34	ND		6045.76
MW-4	03/27/06	6121.10	75.31	ND		6045.79
MW-4	06/19/06	6121.10	75.46	ND		6045.64
MW-4	09/27/06	6121.10	75.80	ND		6045.30
MW-4	12/20/06	6121.10	75.70	ND		6045.40
MW-4	03/28/07	6121.10	75.89	ND		6045.21
MW-4	06/14/07	6121.10	76.22	ND		6044.88
MW-4	09/18/07	6121.10	76.27	ND		6044.83
MW-4	12/17/07	6121.10	76.13	ND		6044.97
MW-4	03/05/08	6121.10	75.99	ND		6045.11
MW-4	06/12/08	6121.10	76.03	ND		6045.07
MW-4	09/08/08	6121.10	75.99	ND		6045.11
MW-4	12/03/08	6121.10	76.08	76.04	0.04	6045.05
MW-4	03/10/09	6121.10	76.23	ND		6044.87
MW-4	06/03/09	6121.10	76.30	ND		6044.80

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-4	08/26/09	6121.10	76.62	ND		6044.48
MW-4	11/05/09	6121.10	76.47	ND		6044.63
MW-4	02/11/10	6121.10	76.32	ND		6044.78
MW-4	05/21/10	6121.10	76.58	ND		6044.52
MW-4	09/29/10	6121.10	76.85	ND		6044.25
MW-4	11/02/10	6121.10	77.07	ND		6044.03
MW-4	02/02/11	6121.10	76.80	ND		6044.30
MW-4	05/04/11	6121.10	76.78	ND		6044.32
MW-4	09/29/11	6121.10	76.27	ND		6044.83
MW-4	11/11/11	6121.10	76.25	ND		6044.85
MW-4	02/16/12	6121.10	76.97	ND		6044.13
MW-4	05/08/12	6121.10	76.03	ND		6045.07
MW-4	06/07/13	6121.10	76.87	ND		6044.23
MW-4	09/12/13	6121.10	77.08	ND		6044.02
MW-4	12/13/13	6121.10	77.11	ND		6043.99
MW-4	04/05/14	6121.10	77.06	ND		6044.04
MW-4	10/21/14	6121.10	77.20	ND		6043.90
MW-4	05/27/15	6121.10	77.12	ND		6043.98
MW-4	11/22/15	6121.10	77.06	ND		6044.04
MW-4	04/15/16	6121.10	76.67	ND		6044.43
MW-4	10/11/16	6121.10	76.30	ND		6044.80
MW-4	06/06/17	6121.10	75.69	ND		6045.41
MW-4	11/10/17	6121.10	75.31	ND		6045.79

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-5	08/30/00	6117.88	74.19	NR		6043.69
MW-5	06/05/01	6117.88	74.26	NR		6043.62
MW-5	07/13/01	6117.88	74.34	NR		6043.54
MW-5	08/16/01	6117.88	74.29	NR		6043.59
MW-5	09/10/01	6117.88	74.30	NR		6043.58
MW-5	05/17/02	6117.88	74.15	NR		6043.73
MW-5	09/04/02	6117.88	74.24	NR		6043.64
MW-5	12/17/02	6117.88	73.78	NR		6044.10
MW-5	06/26/03	6117.88	74.27	ND		6043.61
MW-5	09/14/03	6117.88	74.42	ND		6043.46
MW-5	12/09/03	6117.88	74.25	ND		6043.63
MW-5	03/15/04	6117.88	74.23	ND		6043.65
MW-5	06/17/04	6117.88	74.21	ND		6043.67
MW-5	09/16/04	6117.88	74.00	ND		6043.88
MW-5	12/20/04	6117.88	73.83	ND		6044.05
MW-5	03/17/05	6117.88	73.76	ND		6044.12
MW-5	06/17/05	6117.88	73.81	ND		6044.07
MW-5	09/15/05	6117.88	73.80	ND		6044.08
MW-5	12/22/05	6117.88	73.93	ND		6043.95
MW-5	03/27/06	6117.88	73.94	ND		6043.94
MW-5	06/19/06	6117.88	73.98	ND		6043.90
MW-5	09/27/06	6117.88	74.20	ND		6043.68
MW-5	12/20/06	6117.88	74.00	ND		6043.88
MW-5	03/28/07	6117.88	74.17	ND		6043.71
MW-5	06/14/07	6117.88	74.39	ND		6043.49
MW-5	09/18/07	6117.88	74.46	ND		6043.42
MW-5	12/17/07	6117.88	74.41	ND		6043.47
MW-5	03/05/08	6117.88	74.36	ND		6043.52
MW-5	06/12/08	6117.88	74.53	ND		6043.35
MW-5	09/08/08	6117.88	74.47	ND		6043.41
MW-5	12/03/08	6117.88	74.54	ND		6043.34
MW-5	03/10/09	6117.88	74.53	ND		6043.35
MW-5	06/03/09	6117.88	74.67	74.65	0.02	6043.22
MW-5	08/26/09	6117.88	76.44	ND		6041.44
MW-5	11/05/09	6117.88	74.83	ND		6043.05
MW-5	02/11/10	6117.88	74.66	74.64	0.02	6043.23
MW-5	05/21/10	6117.88	75.00	74.95	0.05	6042.91
MW-5	09/29/10	6117.88	75.20	74.84	0.36	6042.95
MW-5	11/02/10	6117.88	76.67	76.32	0.35	6041.47
MW-5	02/02/11	6117.88	75.53	75.16	0.37	6042.62
MW-5	05/04/11	6117.88	77.53	77.50	0.03	6040.37
MW-5	09/29/11	6117.88	75.09	74.69	0.40	6043.09

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-5	11/11/11	6117.88	75.18	74.90	0.28	6042.91
MW-5	02/16/12	6117.88	74.99	74.82	0.17	6043.01
MW-5	05/08/12	6117.88	74.77	ND		6043.11
MW-5	06/07/13	6117.88	75.25	75.16	0.09	6042.69
MW-5	09/12/13	6117.88	75.52	75.34	0.18	6042.49
MW-5	12/13/13	6117.88	75.52	75.30	0.22	6042.52
MW-5	04/05/14	6117.88	75.54	75.28	0.26	6042.53
MW-5	10/21/14	6117.88	75.44	75.44	0.00	6042.44
MW-5	05/27/15	6117.88	75.45	75.44	0.01	6042.43
MW-5	11/22/15	6117.88	75.47	75.46	0.01	6042.41
MW-5	04/15/16	6117.88	75.57	75.23	0.34	6042.56
MW-5	10/11/16	6117.88	75.03	74.53	0.50	6043.22
MW-5	06/06/17	6117.88	74.72	ND		6043.16
MW-5	11/10/17	6117.88	74.44	ND		6043.44

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-6	12/20/01	6113.73	NR	NR		NR
MW-6	12/28/01	6113.73	NR	NR		NR
MW-6	03/06/02	6113.73	72.09	70.64	1.45	6042.72
MW-6	03/11/02	6113.73	71.95	71.38	0.57	6042.20
MW-6	03/21/02	6113.73	71.44	71.17	0.27	6042.49
MW-6	04/03/02	6113.73	71.06	71.04	0.02	6042.68
MW-6	05/17/02	6113.73	71.04	70.97	0.07	6042.74
MW-6	09/04/02	6113.73	71.28	71.05	0.23	6042.62
MW-6	12/17/02	6113.73	71.06	71.03	0.03	6042.69
MW-6	03/20/03	6113.73	71.43	70.90	0.53	6042.69
MW-6	06/26/03	6113.73	71.66	71.04	0.62	6042.53
MW-6	09/14/03	6113.73	72.25	71.04	1.21	6042.38
MW-6	12/09/03	6113.73	71.75	71.10	0.65	6042.46
MW-6	03/15/04	6113.73	71.74	71.11	0.63	6042.46
MW-6	06/17/04	6113.73	71.68	71.11	0.57	6042.47
MW-6	09/16/04	6113.73	71.79	71.05	0.74	6042.49
MW-6	12/20/04	6113.73	72.09	71.05	1.04	6042.42
MW-6	03/17/05	6113.73	71.79	70.96	0.83	6042.56
MW-6	06/17/05	6113.73	72.05	71.05	1.00	6042.43
MW-6	09/15/05	6113.73	72.14	71.04	1.10	6042.41
MW-6	12/22/05	6113.73	72.22	71.30	0.92	6042.20
MW-6	03/27/06	6113.73	72.10	71.02	1.08	6042.44
MW-6	06/19/06	6113.73	72.33	71.34	0.99	6042.14
MW-6	07/21/06	6113.73	72.44	71.54	0.90	6041.96
MW-6	08/24/06	6113.73	72.42	71.54	0.88	6041.97
MW-6	09/27/06	6113.73	72.37	71.57	0.80	6041.96
MW-6	10/22/06	6113.73	72.35	71.53	0.82	6041.99
MW-6	11/07/06	6113.73	72.43	71.66	0.77	6041.87
MW-6	12/20/06	6113.73	72.41	71.60	0.81	6041.92
MW-6	01/16/07	6113.73	72.45	71.62	0.83	6041.90
MW-6	02/26/07	6113.73	72.41	71.65	0.76	6041.89
MW-6	03/26/07	6113.73	72.50	71.76	0.74	6041.78
MW-6	03/28/07	6113.73	72.39	ND		6041.34
MW-6	04/30/07	6113.73	72.49	71.77	0.72	6041.78
MW-6	05/24/07	6113.73	72.50	71.91	0.59	6041.67
MW-6	06/14/07	6113.73	72.42	71.83	0.59	6041.75
MW-6	07/31/07	6113.73	72.49	71.83	0.66	6041.73
MW-6	08/29/07	6113.73	72.47	71.82	0.65	6041.74
MW-6	09/18/07	6113.73	72.43	71.82	0.61	6041.75
MW-6	10/31/07	6113.73	72.40	72.12	0.28	6041.54
MW-6	11/30/07	6113.73	72.27	72.02	0.25	6041.64
MW-6	12/17/07	6113.73	72.18	72.11	0.07	6041.60

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-6	01/23/08	6113.73	72.13	71.96	0.17	6041.72
MW-6	03/05/08	6113.73	71.95	71.94	0.01	6041.78
MW-6	04/15/08	6113.73	72.09	ND		6041.64
MW-6	05/08/08	6113.73	71.94	ND		6041.79
MW-6	06/12/08	6113.73	72.02	ND		6041.71
MW-6	07/17/08	6113.73	72.07	ND		6041.66
MW-6	08/12/08	6113.73	72.02	ND		6041.71
MW-6	09/08/08	6113.73	71.92	71.91	0.01	6041.81
MW-6	10/09/08	6113.73	71.97	ND		6041.76
MW-6	11/07/08	6113.73	71.98	ND		6041.75
MW-6	12/03/08	6113.73	72.00	ND		6041.73
MW-6	01/16/09	6113.73	72.15	ND		6041.58
MW-6	02/06/09	6113.73	72.09	ND		6041.64
MW-6	03/10/09	6113.73	71.92	ND		6041.81
MW-6	04/01/09	6113.73	71.84	ND		6041.89
MW-6	05/01/09	6113.73	72.00	ND		6041.73
MW-6	06/03/09	6113.73	72.06	ND		6041.67
MW-6	08/26/09	6113.73	73.02	ND		6040.71
MW-6	11/05/09	6113.73	72.18	ND		6041.55
MW-6	02/11/10	6113.73	72.13	ND		6041.60
MW-6	05/21/10	6113.73	72.20	ND		6041.53
MW-6	09/29/10	6113.73	72.15	ND		6041.58
MW-6	11/02/10	6113.73	73.07	ND		6040.66
MW-6	02/02/11	6113.73	72.25	ND		6041.48
MW-6	05/04/11	6113.73	72.32	ND		6041.41
MW-6	09/29/11	6113.73	72.30	ND		6041.43
MW-6	11/11/11	6113.73	72.78	ND		6040.95
MW-6	02/16/12	6113.73	72.29	ND		6041.44
MW-6	05/08/12	6113.73	72.37	ND		6041.36
MW-6	06/07/13	6113.73	72.51	ND		6041.22
MW-6	09/12/13	6113.73	72.40	ND		6041.33
MW-6	12/13/13	6113.73	72.63	ND		6041.10
MW-6	04/05/14	6113.73	72.64	ND		6041.09
MW-6	10/21/14	6113.73	72.86	ND		6040.87
MW-6	05/27/15	6113.73	72.90	ND		6040.83
MW-6	11/22/15	6113.73	72.97	ND		6040.76
MW-6	04/15/16	6113.73	72.94	ND		6040.79
MW-6	10/11/16	6113.73	73.04	ND		6040.69
MW-6	06/06/17	6113.73	72.75	ND		6040.98
MW-6	11/10/17	6113.73	72.72	ND		6041.01

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-7	12/20/06	6121.89	74.38	ND		6047.51
MW-7	03/28/07	6121.89	74.51	ND		6047.38
MW-7	06/14/07	6121.89	74.47	ND		6047.42
MW-7	09/18/07	6121.89	74.22	ND		6047.67
MW-7	12/17/07	6121.89	74.12	ND		6047.77
MW-7	03/05/08	6121.89	73.90	ND		6047.99
MW-7	04/15/08	6121.89	72.82	ND		6049.07
MW-7	06/12/08	6121.89	73.77	ND		6048.12
MW-7	09/08/08	6121.89	73.76	73.75	0.01	6048.13
MW-7	12/03/08	6121.89	73.92	ND		6047.97
MW-7	03/10/09	6121.89	73.83	ND		6048.06
MW-7	06/03/09	6121.89	73.85	ND		6048.04
MW-7	08/25/09	6121.89	NA	NA		0.00
MW-7	08/26/09	6121.89	73.63	ND		6048.26
MW-7	11/05/09	6121.89	73.92	ND		6047.97
MW-7	02/11/10	6121.89	73.91	ND		6047.98
MW-7	05/21/10	6121.89	74.28	ND		6047.61
MW-7	09/29/10	6121.89	74.57	ND		6047.32
MW-7	11/02/10	6121.89	74.76	ND		6047.13
MW-7	02/02/11	6121.89	73.95	ND		6047.94
MW-7	05/04/11	6121.89	73.00	ND		6048.89
MW-7	09/29/11	6121.89	71.93	ND		6049.96
MW-7	11/11/11	6121.89	71.90	ND		6049.99
MW-7	02/16/12	6121.89	71.85	ND		6050.04
MW-7	05/08/12	6121.89	72.94	ND		6048.95
MW-7	06/07/13	Well Destroyed				

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-9	12/20/06	6109.56	67.56	ND		6042.00
MW-9	03/28/07	6109.56	67.72	ND		6041.84
MW-9	06/14/07	6109.56	67.97	ND		6041.59
MW-9	09/18/07	6109.56	68.10	ND		6041.46
MW-9	12/17/07	6109.56	68.07	ND		6041.49
MW-9	03/05/08	6109.56	68.04	ND		6041.52
MW-9	04/15/08	6109.56	68.03	ND		6041.53
MW-9	06/12/08	6109.56	68.27	ND		6041.29
MW-9	09/08/08	6109.56	68.25	ND		6041.31
MW-9	12/03/08	6109.56	68.26	ND		6041.30
MW-9	03/10/09	6109.56	68.28	ND		6041.28
MW-9	06/03/09	6109.56	68.44	ND		6041.12
MW-9	08/26/09	6109.56	68.40	ND		6041.16
MW-9	11/05/09	6109.56	68.62	ND		6040.94
MW-9	02/11/10	6109.56	68.30	ND		6041.26
MW-9	05/21/10	6109.56	68.42	ND		6041.14
MW-9	09/29/10	6109.56	68.47	ND		6041.09
MW-9	11/02/10	6109.56	68.73	ND		6040.83
MW-9	02/02/11	6109.56	68.60	ND		6040.96
MW-9	05/04/11	6109.56	68.74	ND		6040.82
MW-9	09/29/11	6109.56	68.67	ND		6040.89
MW-9	11/11/11	6109.56	68.65	ND		6040.91
MW-9	02/16/12	6109.56	68.60	ND		6040.96
MW-9	05/08/12	6109.56	68.62	ND		6040.94
MW-9	06/07/13	6109.56	68.99	ND		6040.57
MW-9	09/12/13	6109.56	69.18	ND		6040.38
MW-9	12/13/13	6109.56	69.04	ND		6040.52
MW-9	04/05/14	6109.56	69.02	ND		6040.54
MW-9	10/21/14	6109.56	69.30	ND		6040.26
MW-9	05/27/15	6109.56	69.44	ND		6040.12
MW-9	11/22/15	6109.56	69.58	ND		6039.98
MW-9	04/15/16	6109.56	69.44	ND		6040.12
MW-9	10/11/16	6109.56	69.34	ND		6040.22
MW-9	06/06/17	6109.56	69.36	ND		6040.20
MW-9	11/10/17	6109.56	69.34	ND		6040.22

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-10	05/27/15	6123.78	71.94	71.78	0.16	6051.96
MW-10	11/22/15	6123.78	71.29	71.11	0.18	6052.63
MW-10	04/15/16	6123.78	70.62	ND		6053.16
MW-10	10/11/16	6123.78	69.85	ND		6053.93
MW-10	06/06/17	6123.78	68.99	ND		6054.79
MW-10	11/10/17	6123.78	68.44	ND		6055.34
MW-11	05/27/15	6121.55	75.02	75.01	0.01	6046.54
MW-11	11/22/15	6121.55	74.61	74.59	0.02	6046.96
MW-11	04/15/16	6121.55	75.11	74.33	0.78	6047.03
MW-11	10/11/16	6121.55	73.79	73.66	0.13	6047.86
MW-11	06/06/17	6123.78	73.03	ND		6050.75
MW-11	11/10/17	6123.78	72.91	ND		6050.87
MW-12	05/27/15	6118.17	86.28	ND		6031.89
MW-12	11/22/15	6118.17	85.20	ND		6032.97
MW-12	04/15/16	6118.17	84.49	ND		6033.68
MW-12	10/11/16	6118.17	83.46	ND		6034.71
MW-12	06/06/17	6118.17	82.13	ND		6036.04
MW-12	11/10/17	6118.17	81.34	ND		6036.83
MW-13	05/27/15	6115.52	83.66	ND		6031.86
MW-13	11/22/15	6115.52	81.40	ND		6034.12
MW-13	04/15/16	6115.52	80.14	ND		6035.38
MW-13	10/11/16	6115.52	79.19	ND		6036.33
MW-13	06/06/17	6115.52	78.03	ND		6037.49
MW-13	11/10/17	6115.52	77.66	ND		6037.86
MW-14	05/27/15	6111.92	71.41	ND		6040.51
MW-14	11/22/15	6111.92	71.45	ND		6040.47
MW-14	04/15/16	6111.92	71.26	ND		6040.66
MW-14	10/11/16	6111.92	71.22	ND		6040.70
MW-14	06/06/17	6111.92	71.04	ND		6040.88
MW-14	11/10/17	6111.92	70.90	ND		6041.02
MW-15	05/27/15	6110.93	70.42	ND		6040.51
MW-15	11/22/15	6110.93	70.56	ND		6040.37
MW-15	04/15/16	6110.93	70.41	ND		6040.52
MW-15	10/11/16	6110.93	70.38	ND		6040.55
MW-15	06/06/17	6110.93	70.36	ND		6040.57
MW-15	11/10/17	6110.93	70.31	ND		6040.62

TABLE 2 - GROUNDWATER ELEVATION RESULTS

State Gas Com N#1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-16	05/27/15	6113.78	72.66	ND		6041.12
MW-16	11/22/15	6113.78	72.79	ND		6040.99
MW-16	04/15/16	6113.78	72.69	ND		6041.09
MW-16	10/11/16	6113.78	72.84	ND		6040.94
MW-16	06/06/17	6113.78	72.58	ND		6041.20
MW-16	11/10/17	6113.78	72.53	ND		6041.25
MW-17	05/27/15	6117.30	85.94	ND		6031.36
MW-17	11/22/15	6117.30	84.77	ND		6032.53
MW-17	04/15/16	6117.30	84.18	ND		6033.12
MW-17	10/11/16	6117.30	83.42	ND		6033.88
MW-17	06/06/17	6117.30	82.48	ND		6034.82
MW-17	11/10/17	6117.30	81.87	ND		6035.43
MW-18	05/27/15	6121.16	77.74	ND		6043.42
MW-18	11/22/15	6121.16	77.70	ND		6043.46
MW-18	04/15/16	6121.16	77.52	ND		6043.64
MW-18	10/11/16	6121.16	77.54	ND		6043.62
MW-18	06/06/17	6121.16	77.01	ND		6044.15
MW-18	11/10/17	6121.16	76.83	ND		6044.33
MW-19	05/27/15	6115.44	73.76	ND		6041.68
MW-19	11/22/15	6115.44	73.82	ND		6041.62
MW-19	04/15/16	6115.44	73.67	ND		6041.77
MW-19	10/11/16	6115.44	73.76	ND		6041.68
MW-19	06/06/17	6115.44	73.29	ND		6042.15
MW-19	11/10/17	6115.44	73.12	ND		6042.32

Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = Light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded

TABLE 3 - SOIL ANALYTICAL RESULTS

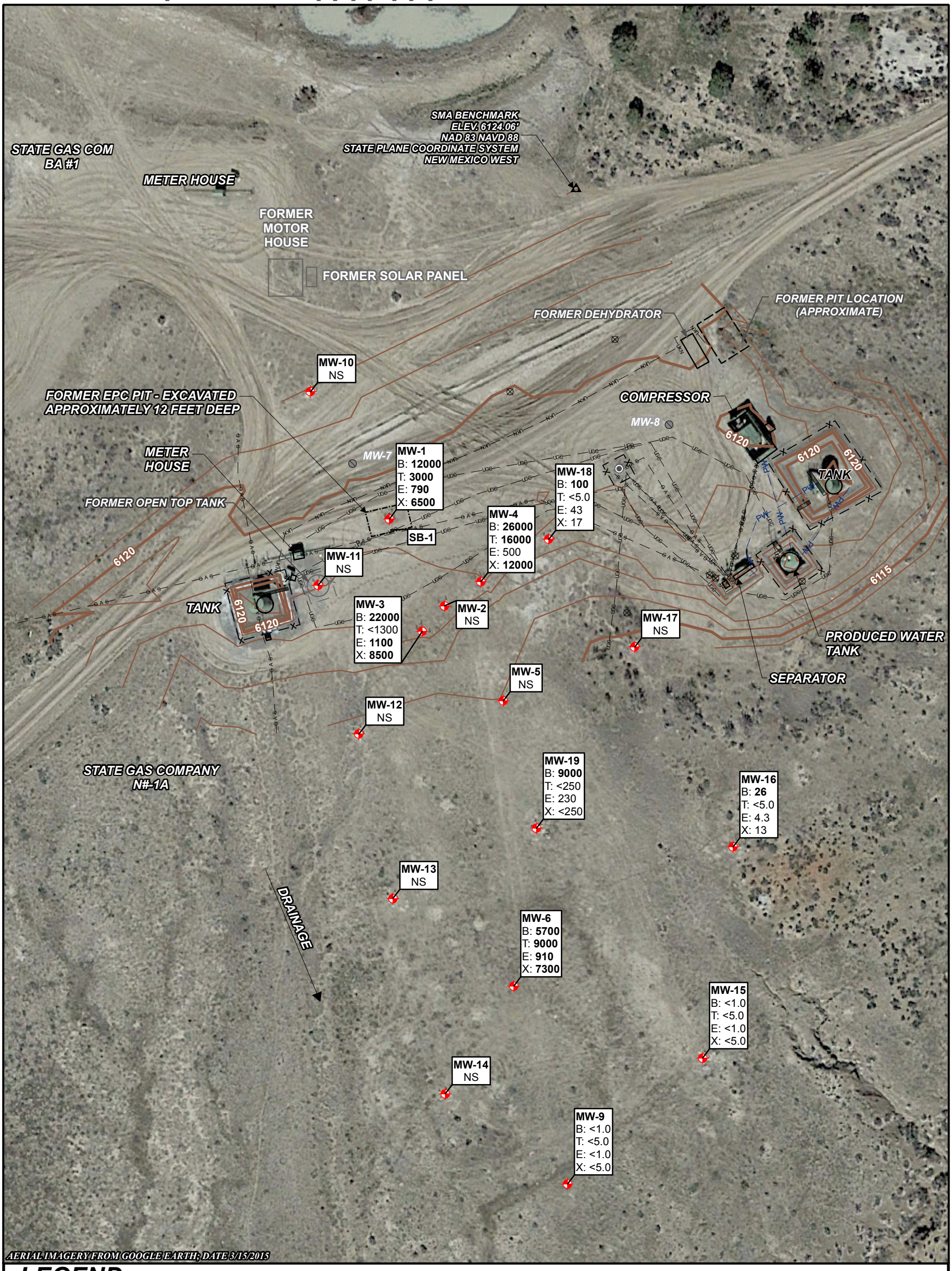
State Gas Com N#1																			
Location	Date	Benzene (mg/kg)		Toluene (mg/kg)		Ethylbenzene (mg/kg)		Total Xylenes (mg/kg)		BTEX Total (mg/kg)	GRO C6-10 (mg/kg)		DRO C10-28 (mg/kg)		MRO C28-35 (mg/kg)		GRO +DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
	NMOCD Criteria:	10		NE		NE		NE		50	NE		NE		NE		1,000	2,500	10,000
SGC MW-10-82'	10/25/14	BDL		5.13		2.39		28.1		35.62	936		777		BDL		**1,713**	1,713	8.85
SGC MW-11-84'	10/26/14	0.000829	J	BDL		BDL		BDL		0.000829	0.43	J	1.70	J	4.98	J	2.13	7.11	32
SGC MW-12-78'	11/01/14	0.00247	J	0.00266	J	BDL		0.00495	J	0.010	0.40	J	BDL		BDL		0.40	0.40	12.5
SGC MW-13-71.5'	10/31/14	BDL		0.0276	J	0.0147	J	0.691		0.73	8.37		11.2		BDL		19.57	19.57	26
SGC MW-14-69'	10/30/14	BDL		0.00138		0.00102		0.00113		0.0035	0.39	J	BDL		BDL		0.39	0.39	67.4
SGC MW-15-72.5'	10/29/14	0.000883	J B	BDL		BDL		0.00695		0.00088	0.528	J	BDL		BDL		0.53	0.53	75.6
SGC MW-16-69'	10/28/14	BDL		0.391	J	1.47		25.5		27.36	874		40.4		BDL		914.4	914.4	68.2
SGC MW-17-72'	10/27/14	BDL		0.632		0.397	J	4.29		5.32	39		6.07	J	BDL		45.07	45.07	19.8
SGC MW-18-68'	10/26/14	0.00145	J	0.00473	J	BDL		0.0154		0.022	1.34		BDL		BDL		1.34	1.34	56.5
SGC MW-19-70-72'	11/07/14	5.39		0.192	J	12.3		94.4		**112.28**	1,700		159		BDL		**1,859**	1,859	123
SGC SB-1-22-24'	11/08/14	**14.9**		53.2		6.13		107		**181.23**	2,130		246		144		**2,376**	**2,520**	36.7
SGC SB-1-25-27'	11/08/14	9.88		40.3		6.76		148		**204.94**	4,200		391		205		**4,591**	**4,796**	62.1
SGC SB-1-32-34'	11/08/14	5.22		22.8		11.3		214		**253.32**	7,150		450		59		**7,600**	**7,659**	77.8
SGC SB-1-43-44.8	11/08/14	**31.9**		316		65.9		573		**986.8**	12,200		750		126		**12,950**	**13,076**	66.5
SGC SB-1-46.5-48.5'	11/08/14	8.93		109		21.6		247		**386.53**	9,270		244		58.5		**9,514**	**9,573**	44.3
SGC SB-1-57-58.9'	11/08/14	**16.1**		77.5		22.2		257		**372.8**	9,220		2.91		8.98		**9,223**	**9,232**	200
SGC SB-1-67-68.8'	11/08/14	**37.4**		65		57		487		**646.4**	14,100		645		BDL		**14,745**	**14,757**	246
SGC SB-1-71-73'	11/08/14	**35.8**		47.8		36.6		304		**424.2**	12,100		528		BDL		**12,628**	**12,628**	136
TW-1 (68-69')	10/31/17	7.8		34		27		170		**238.8**	3900		1000		BDL		**4900**	**4,900**	96
TW-2 (19-20')	11/01/17	BDL		1.2		2.1		18		21.3	510		530		BDL		**1040**	1,040	75
TW-2 (41-42')	11/02/17	0.077		2.1		3.9		27		33.1	910		530		BDL		**1440**	1,440	32
TW-2 (54-55')	11/02/17	0.31		3.4		3.7		26		33.4	990		500		BDL		**1490**	1,490	58
TW-2 (69-70')	11/02/17	BDL		BDL		BDL		BDL		BDL	20		53		BDL		73	73	160
TW-3 (48-49')	11/03/17	BDL		BDL		0.0049		0.085		0.090	0.38		8.2		BDL		8.58	9	390
TW-3 (68-69')	11/03/17	0.0018		BDL		0.0027		0.023		0.026	16		22		BDL		38	38	130

Notes:

J	Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
B	Compound was found in the blank and sample.
mg/kg	Milligrams per kilogram
BDL	Below Detection Limit
NE	New Mexico Oil Conservation Division (NMOCD) Standard Not Established
BTEX	Benzene, toluene, ethylbenzene, xylenes
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics
Total BTEX	Sum of the detectable concentrations of individual BTEX constituents
TPH	Total Petroleum Hydrocarbon concentration is calculated by adding GRO, DRO, and MRO and rounded to the nearest mg/kg.
NMOCD Criteria	New Mexico Oil Conservation Division closure criteria for groundwater 50 to 100 feet below bottom of pit to groundwater less than 10,000 mg/L
	Results bolded and highlighted yellow exceed their respective NMOCD Standards

FIGURES

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STATE GAS COM N#1\2017 MAPS\State_Gas_Com_N#1_GARM_1SA_2017_Portrait.mxd



LEGEND:

- 6120 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- —X— FENCE
- G A S NATURAL GAS LINE
- PW PRODUCED WATER LINE
- UKN UNKNOWN LINE
- UGC UNDERGROUND CABLE
- ABANDONED MONITORING WELL
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD
- SOIL BORING

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1.0 = BELOW REPORTING LIMIT

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L

N

SCALE IN FEET
0 60 120

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/18/2017	SLG	SLG	SV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
JUNE 6, 2017

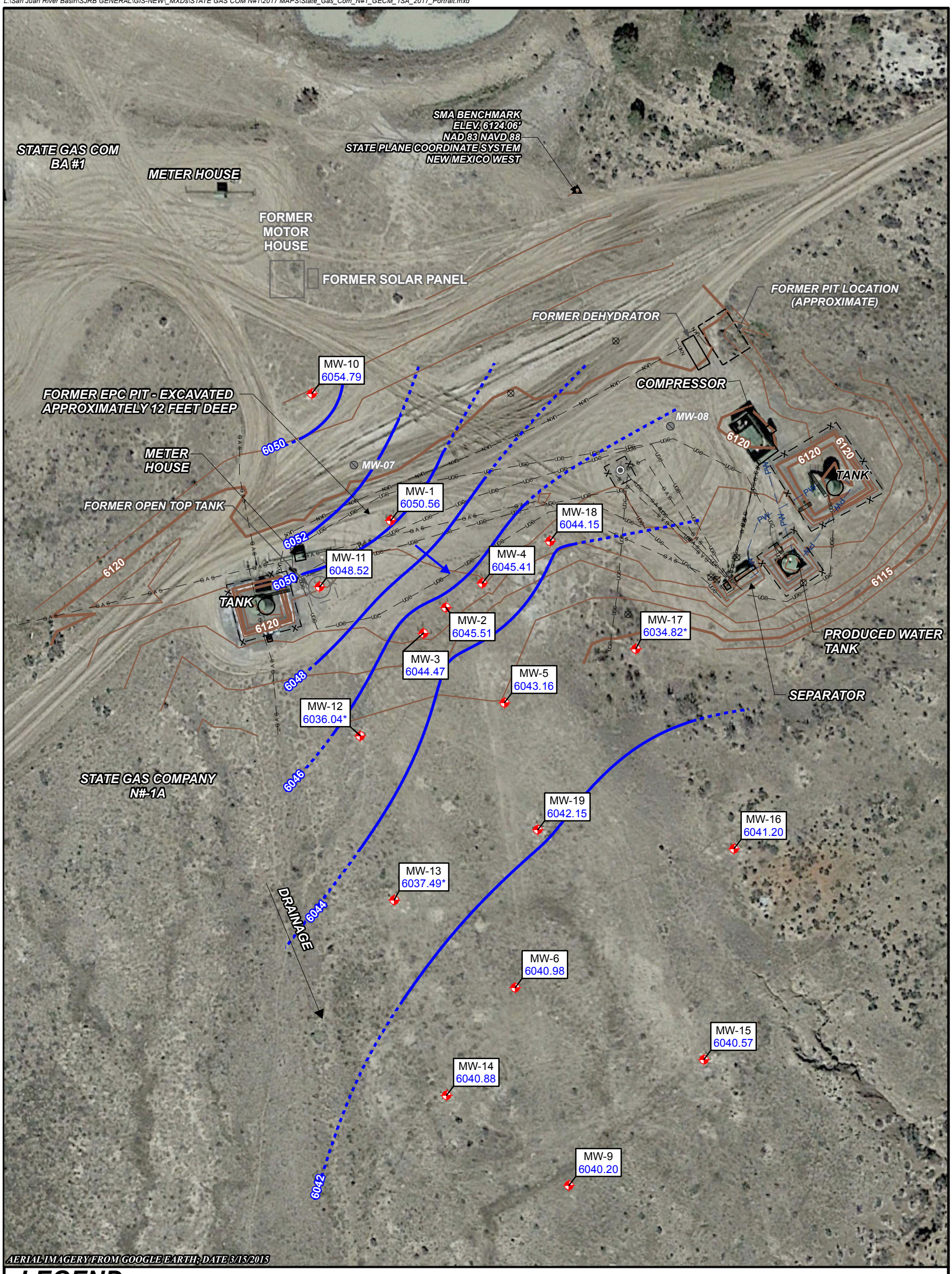
PROJECT:

STATE GAS COM N#1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 1

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STATE GAS COM N#1\2017 MAPS\State_Gas_Com_N#1_GECM_1SA_2017_Portrait.mxd



LEGEND:

- 6120 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- —x— FENCE
- G A S NATURAL GAS LINE
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- UKN UNKNOWN LINE
- UGC UNDERGROUND CABLE
- ABANDONED MONITORING WELL
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

6039.98 GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

–6041– CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL) 2 FOOT CONTOUR INTERVAL

DIRECTION OF APPARENT GROUNDWATER FLOW

* MONITORING WELLS MW-12, MW-13, AND MW-17 WERE NOT USED FOR GROUNDWATER CONTOURING DUE TO ANOMALOUS MEASUREMENTS.

N

SCALE IN FEET
0 60 120

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/18/2017	SLG	SLG	SV

TITLE:

GROUNDWATER ELEVATION MAP
JUNE 6, 2017

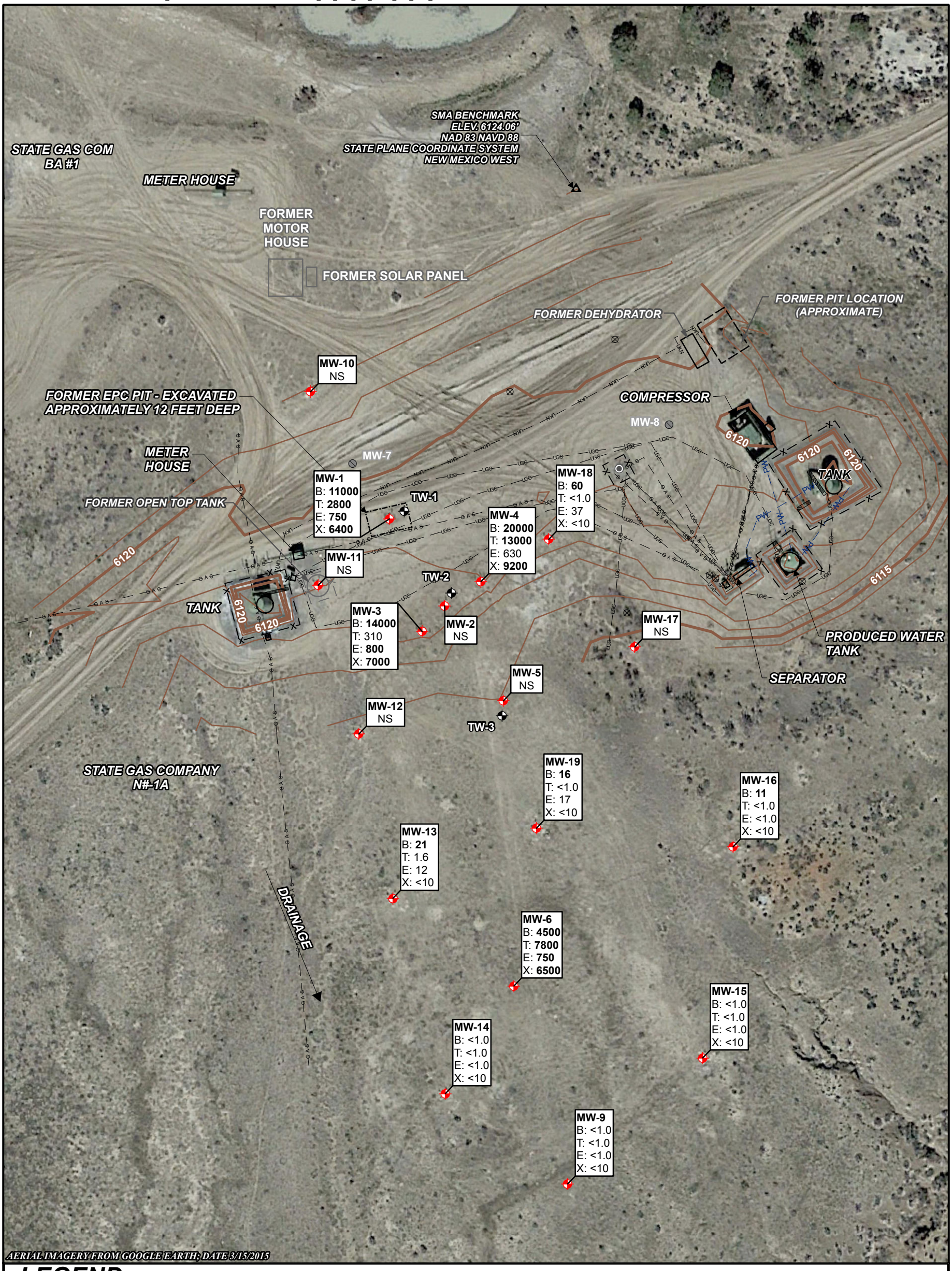
PROJECT:

STATE GAS COM N#1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STATE GAS COM N#1\2017 MAPS\State_Gas_Com_N#1_GARM_2SA_2017_Portrait.mxd



LEGEND:

- 6120 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- —X— FENCE
- G A S NATURAL GAS LINE
- PW PRODUCED WATER LINE
- UKN UNKNOWN LINE
- UGC UNDERGROUND CABLE
- ABANDONED MONITORING WELL
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD
- TEST WELL

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1.0 = BELOW REPORTING LIMIT

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L

N

SCALE IN FEET
0 60 120

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	12/19/2017	SLG	SLG	SV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 10, 2017

PROJECT:

STATE GAS COM N#1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

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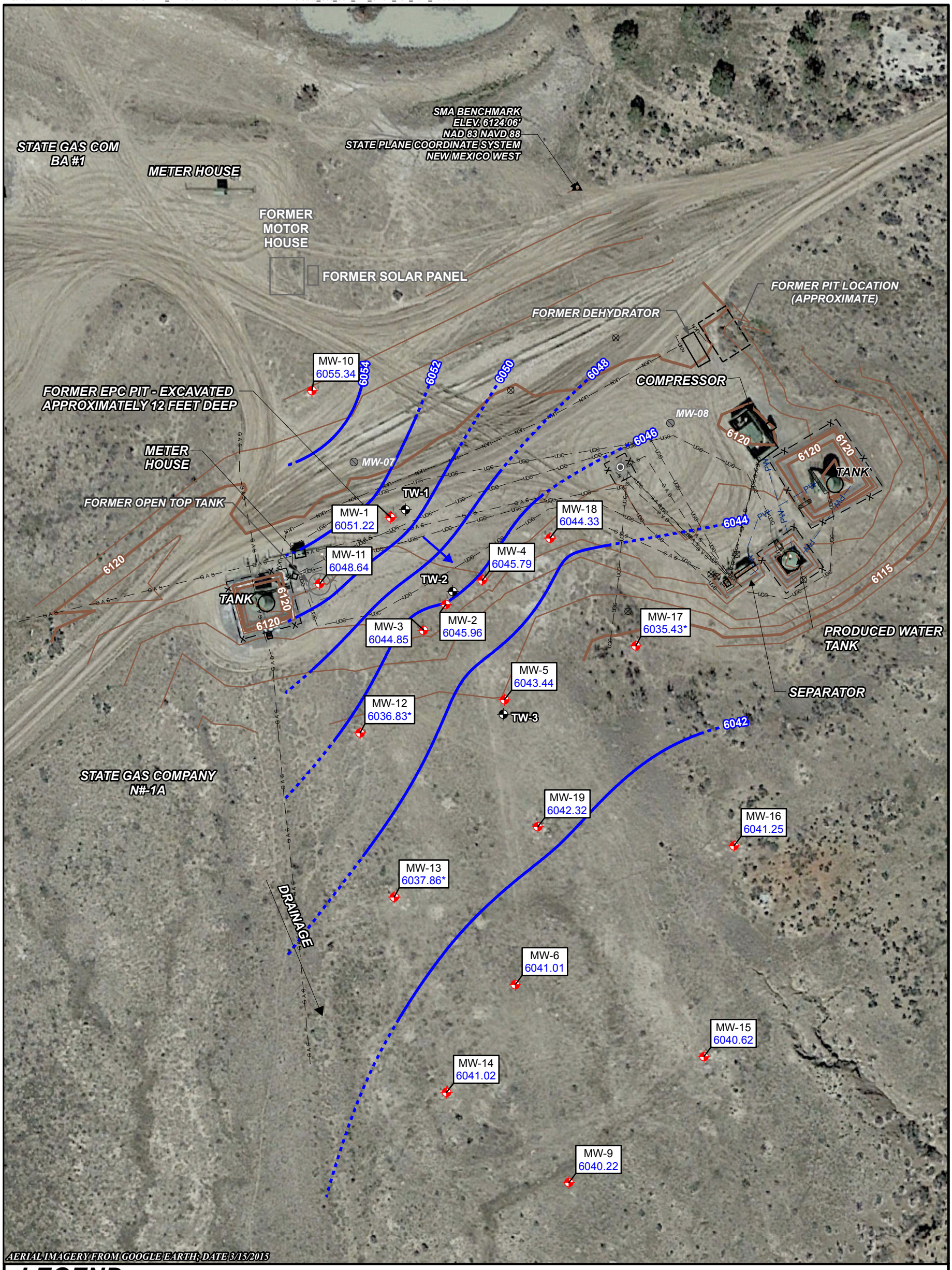
Figure No.: **3**

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STATE GAS COM N#1\2017 MAPS\State_Gas_Com_N#1_GECM_2SA_2017_Portrait.mxd



LEGEND:

- 6120 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- —x— FENCE
- G A S NATURAL GAS LINE
- PW PRODUCED WATER LINE
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- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD
- TEST WELL

NOTES:

6039.98 — GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

–6041– — CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL) 2 FOOT CONTOUR INTERVAL

→ DIRECTION OF APPARENT GROUNDWATER FLOW

* MONITORING WELLS MW-12, MW-13, AND MW-17 WERE NOT USED FOR GROUNDWATER CONTOURING DUE TO ANOMALOUS MEASUREMENTS.

N

SCALE IN FEET
0 60 120

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	12/19/2017	SLG	SLG	SV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 10, 2017

PROJECT:

STATE GAS COM N#1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **4**

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STATE GAS COM N#1\2017 MAPS\State_Gas_Com_N#1_SARM_2017_Portrait.mxd

TW-1
68-69 ft. bgs
B: 7.8
BTEX: **238.8**
GRO+DRO: **4900**
TPH: **4900**
Cl: 96

MW-18
68 ft. bgs
B: 0.00145
BTEX: 0.022
GRO+DRO: 1.34
TPH: 1.34
Cl: 56.5

MW-10
82 ft. bgs
B: BRL
BTEX: 35.62
GRO+DRO: **1713**
TPH: 1713
Cl: 8.85

TW-2
19-20 ft. bgs
B: BRL
BTEX: 21.3
GRO+DRO: **1040**
TPH: 1040
Cl: 75

41-42 ft. bgs
B: 0.077
BTEX: 33.1
GRO+DRO: **1440**
TPH: 1440
Cl: 32

54-55 ft. bgs
B: 0.31
BTEX: 33.4
GRO+DRO: **1490**
TPH: 1490
Cl: 58

69-70 ft. bgs
B: BRL
BTEX: BRL
GRO+DRO: 73
TPH: 73
Cl: 160

SB-1
22-24 ft. bgs
B: **14.9**
BTEX: **181.23**
GRO+DRO: **2376**
TPH: **2520**
Cl: 36.7

25-27 ft. bgs
B: 9.88
BTEX: **204.94**
GRO+DRO: **4591**
TPH: **4796**
Cl: 62.1

32-34 ft. bgs
B: 5.22
BTEX: **253.32**
GRO+DRO: **7600**
TPH: **7659**
Cl: 77.8

43-44.8 ft. bgs
B: **31.9**
BTEX: **986.8**
GRO+DRO: **12950**
TPH: **13076**
Cl: 66.5

46.5-48.5 ft. bgs
B: 8.93
BTEX: **386.53**
GRO+DRO: **9514**
TPH: **9573**
Cl: 44.3

57-58.9 ft. bgs
B: **16.1**
BTEX: **372.8**
GRO+DRO: **9223**
TPH: **9232**
Cl: 200

67-68.8 ft. bgs
B: **37.4**
BTEX: **646.4**
GRO+DRO: **14745**
TPH: **14757**
Cl: 246

71-73 ft. bgs
B: **35.8**
BTEX: **424.2**
GRO+DRO: **12628**
TPH: **12628**
Cl: 136

MW-11
84 ft. bgs
B: 0.000829
BTEX: 0.000829
GRO+DRO: 2.13
TPH: 7.11
Cl: 32

MW-12
78 ft. bgs
B: 0.00247
BTEX: 0.010
GRO+DRO: 0.40
TPH: 0.40
Cl: 12.5

MW-13
71.5 ft. bgs
B: BRL
BTEX: 0.73
GRO+DRO: 19.57
TPH: 19.57
Cl: 26

MW-14
69 ft. bgs
B: BRL
BTEX: 0.0035
GRO+DRO: 0.39
TPH: 0.39
Cl: 67.4

TW-3
48-49 ft. bgs
B: BRL
BTEX: 0.090
GRO+DRO: 8.58
TPH: 9
Cl: 390

68-69 ft. bgs
B: 0.0018
BTEX: 0.026
GRO+DRO: 38
TPH: 38
Cl: 130

MW-17
72 ft. bgs
B: BRL
BTEX: 5.32
GRO+DRO: 45.07
TPH: 45.07
Cl: 19.8

MW-16
69 ft. bgs
B: BRL
BTEX: 27.36
GRO+DRO: 914.4
TPH: 914.4
Cl: 68.2

MW-19
70-72 ft. bgs
B: 5.39
BTEX: **112.28**
GRO+DRO: **1859**
TPH: 1859
Cl: 123

MW-15
72.5 ft. bgs
B: 0.00088
BTEX: 0.00088
GRO+DRO: 0.53
TPH: 0.53
Cl: 75.6

STATE GAS COM BA #1
METER HOUSE
FORMER MOTOR HOUSE
FORMER SOLAR PANEL
SMA BENCHMARK ELEV. 6124.06' NAD 83 NAVD 88 STATE PLANE COORDINATE SYSTEM NEW MEXICO WEST
FORMER DEHYDRATOR
FORMER PIT LOCATION (APPROXIMATE)
FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP
COMPRESSOR
METER HOUSE
FORMER OPEN TOP TANK
TANK
PRODUCED WATER TANK
SEPARATOR
STATE GAS COMPANY N#-1A
DRAINAGE
MW-10
MW-7 NS
MW-7
MW-1 NS
MW-1
TW-1
SB-1
MW-11
MW-8 NS
MW-8
MW-18
MW-4 NS
MW-4
TW-2
MW-2
MW-2 NS
MW-3
MW-3 NS
MW-17
MW-5 NS
MW-5
TW-3
MW-12
MW-19
MW-16
MW-13
MW-6
MW-6 NS
MW-15
MW-14
MW-9
MW-9 NS

AERIAL IMAGERY FROM GOOGLE EARTH; DATE 3/15/2015

LEGEND:

- 6120 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- GAS - NATURAL GAS LINE
- PW - PRODUCED WATER LINE
- UKN - UNKNOWN LINE
- UGC - UNDERGROUND CABLE
- ABANDONED MONITORING WELL
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD
- TEST WELL
- SOIL BORING

NOTES:
MW-10 SAMPLES COLLECTED 10/25/2014; MW-11 10/26/2014; MW-12 11/1/2014; MW-13 10/31/2014; MW-14 10/30/2014; MW-15 10/29/2014; MW-16 10/28/2014; MW-17 10/27/2014; MW-18 10/26/2014; MW-19 11/7/2017; SB-1 11/8/2014; TW-1 10/31/2017; TW-2 11/1/2017-11/2/2017; TW-3 11/3/2017.

UTILITY LOCATIONS ARE APPROXIMATE.

ft. bgs = FEET BELOW GROUND SURFACE
NS = NOT SAMPLED

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF APPLICABLE NEW MEXICO OIL CONSERVATION DIVISION SOIL CRITERIA FOR THAT ANALYTE.
mg/kg = MILLIGRAM/KILOGRAM
BRL = BELOW REPORTING LIMITS

ANALYTE	NMOCD STANDARDS
B = Benzene	10 mg/kg
BTEX = Benzene, toluene, ethylbenzene, xylenes	50 mg/kg
DRO+GRO = Diesel range organics + gasoline range organics	1000 mg/kg
TPH = Total Petroleum Hydrocarbons	2500 mg/kg
Cl = Chloride	10000 mg/kg

SCALE IN FEET
N
0 60 120

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	12/22/2017	SLG	SLG	SV

TITLE:
SOIL ANALYTICAL RESULTS

PROJECT:
STATE GAS COM N#1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.:
5

APPENDICES

APPENDIX A – BORING LOGS AND WELL CONSTRUCTION LOGS

APPENDIX B – SOIL ANALYTICAL REPORT

APPENDIX C – WASTE DISPOSAL DOCUMENTATION

APPENDIX D – NMOCD NOTIFICATIONS OF SITE ACTIVITIES

APPENDIX E – JUNE 6, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT
NOVEMBER 10, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT

APPENDIX A

Drilling Log

Extraction Well **TW-1**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Surface Elev. *6119.32 ft* North *2147429.819* East *2646172.602*

Top of Casing *6121.98 ft* Water Level Initial ▽ *6052.98* 10/31/17 00:00 Static ▼ *6050.14* 11/10/17 00:00

Hole Depth *90.0 ft* Screen: Diameter *2 in* Length *5.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *83.3 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10-20 silica*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Andy Riemer*

Start Date *10/31/2017* Completion Date *11/1/2017* Checked By *Steve Varsa*

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

COMMENTS
NR = No recovery. NM = Not measured.

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	NM						
	9.1	100%			CL	Clayey soil, very stiff, with a sharp hydrocarbon odor at 2', added water at 3' to facilitate hydro-excavation. Black sand noted at 6'. Borehole hydro-excavated to 8' on 10/18/2017.	
	25.4						
5	4.6						
	NM						
	NM	50%					
10	6.4		2,2,2		SM	Sand, silty, 2.5Y 4/4 olive-brown, damp, loose, moderate hydrocarbon odor, low plasticity, at 12' becomes 2.5Y 4/1 dark gray.	
	130.9	100%					
	136.7	100%					
	371.3				SW	Sand, little silt, 2.5Y 5/1 gray, moist, loose to medium dense, moderate hydrocarbon odor, low plasticity, fine-grained.	
	288.0						
15	479.9						
	378.9	100%				Sand, silty, 2.5Y 4/1 dark gray, moist, loose to medium dense, strong hydrocarbon odor, low plasticity.	
	1468						
	1165						
	1762						
20	961.2				SM		
	NR	67%	2,3,3				
	NR						
	NR	0%					
	NR						
25							

Continued Next Page

Drilling Log

Extraction Well **TW-1**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
25	1327					At 25', becomes 10YR 5/2 grayish-brown.	
	NR	70%					
	1093				SM		
	1223						
	723.6					At 29', becomes 2.5Y 2.5/1 black.	
30	819.8					Sand, little silt, 2.5Y 5/2 grayish-brown, medium dense, moderate hydrocarbon odor, low plasticity, fine-grained.	
	NR	100%	2,3,3		SW		
	479.3	57%					
	532.2					Sand, silty, 2.5Y 4/1 dark gray, moist, medium dense, strong hydrocarbon odor, low plasticity, fine-grained.	
	1210						
35	1874						
	NR	60%					
	NR						
	1867						
	1112						
40	1803						
	NR	100%	0,4,6				
	3115	57%					
	1962						
	2099						
45	1114				SM	At 45', becomes dense.	
	NR	60%					
	NR						
	1285						
	2254						
50	699.0					At 50', becomes medium dense.	
	NR	100%	2,4,5				
	2375	71%					
	1017						
	1436						
55	2486						
	NR	0%					
	NR						
	NR						
						Continued Next Page	

Drilling Log

Stantec

Extraction Well **TW-1**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
	2486				SW	Sand, 10YR 5/1 gray, loose, moderate hydrocarbon odor, fine-grained, well graded, trace gypsum nodules.	
	NR	0%					
60	401.8		3,5,6				
	NM	100%					
	NM		4,6,7				
	NM	100%			SW	From 62.5'-64', becomes 10YR 5/2 grayish-brown.	
	1255		7,8,7				
	NM	100%					
65	366.3		11,13, 17			At 65', becomes 2.5Y 5/1 gray, dense, minor cementation.	
	1113	100%					
	956.4		7,12, 13			At 67.5', becomes 2.5Y 2.5/1 black.	
	754.2	100%	2,4, 5,9		SM	Sand, silty, 2.5Y 5/1 gray, moist to wet at 69', low plasticity, moderate hydrocarbon odor, fine-grained.	
70	1361	TW-1 68-69'	3,4,5			Sand, 2.5Y 5/1 gray, fine-grained, medium dense, moderate hydrocarbon odor, wet, well graded.	
	222.9	100%	2,3,5		SW		
	225						
	744.5	100%	2,2, 6,7			Clay, 2.5Y 5/1 gray, soft to medium stiff, low plasticity, moderate hydrocarbon odor.	
	NM	100%			CL		
75	NM		0,6, 9,9				
	NM	100%				Sand, silty, 2.5Y 5/1 gray, medium dense, low plasticity, wet, moderate hydrocarbon odor. fine-grained.	
	NM		0,0, 0,5		SM		
	NM	100%				Clay, 2.5Y 5/1 gray, low plasticity, wet, moderate hydrocarbon odor, soft to medium stiff.	
	NM		7,9, 27		CL		
80	14.2	63%	40,47, 50/5			Sand, 2.5Y 5/3 light olive-brown, fine-grained, moderate cementation, damp, dense, no odor.	
	60.2	48%	9,40, 50/1			At 82', becomes 2.5Y 6/2 light brownish-gray, very dense.	
	30.3		50/5			At 83', becomes 2.5Y 6/1 gray, medium dense.	
	NM	100%				At 84', becomes very dense, a slight weathered hydrocarbon odor present.	
85	0.8	100%	50/5		SW		
	NM					At 86', becomes dense.	
	33.5	100%	50/5				
	0.5	100%					
	NM	100%				At 89', becomes very dense.	
90	5.7					At 89.5', becomes 2.5Y 7/1 light gray.	
		100%				End of boring = 90'.	

Drilling Log

Extraction Well **TW-2**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Surface Elev. *6118.89 ft* North *2147380.478* East *2646201.133*

Top of Casing *6120.97 ft* Water Level Initial ▽ *6047.97* 11/01/17 00:00 Static ▼ *6042.47* 11/10/17 00:00

Hole Depth *89.0 ft* Screen: Diameter *2 in* Length *5.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *84.7 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10-20 silica*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Andy Riemer*

Start Date *11/1/2017* Completion Date *11/2/2017* Checked By *Steve Varsa*

COMMENTS
NR = No recovery. NM = Not measured.

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	NM	100%			CL	Borehole hydro-excavated to 8' on 10/18/2017.	
	0.0						
	75.3						
5	38.2						
	NR					Sand, 10YR 7/3 very pale brown, fine-grained, medium dense, dry, slight hydrocarbon odor, well graded.	
	NR	50%			SW		
10	210.9		4,4,4				
	NR	100%					
	NR	29%				Sand, clayey, 10YR 6/3 pale brown, medium dense, dry, low plasticity, moderate hydrocarbon odor.	
	NR						
	165.7						
15	978.0						
	NR	40%					
	NR						
	NR				SC		
	914.0						
	1692	TW-2 19-20'	5,6,5			At 20', strong hydrocarbon odor.	
20	NR						
	1558	100%				At 22', becomes 10YR 5/4 yellowish-brown.	
	1681	71%					
	1543						
25							

Continued Next Page

Drilling Log

Extraction Well **TW-2**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
25	1739						
	NR	50%					
	NR						
	1706						
	1539						
30	1609					At 30', becomes 10YR 6/3 pale brown.	
	NR	100%	7,7,8				
	NR						
	NR	0%					
	NR						
	NR						
35	1740					At 35', becomes 10YR 5/3 brown, 6-inch fine sand lens observed from 34.5'-35', loose.	
	NR	50%					
	NR						
	NR						
	1575						
40	1247						
	NR	100%	10,10, 13		SC		
	1910	TW-2 41-42'					
	1479						
	1750	71%					
45	1771					AT 45', becomes 10YR 6/2 light brownish-gray, dense, damp.	
	NR	80%					
	1510						
	1722						
	1827						
50	1833					At 50', becomes 10YR 4/2 dark grayish-brown, very dense.	
	NR	100%	9,10, 13				
	NR						
	NR	14%					
	1920						
55	2867	TW-2 54-55'				At 55', becomes dense.	
	NR						
	1858	80%					
	1537						

Continued Next Page

Drilling Log

Extraction Well **TW-2**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
	2867						
	1560	80%					
60	1588					At 60', becomes 10YR 5/2 grayish-brown.	
	1719	100%	6,10, 10,11				
	2048					At 62', becomes 10YR 6/2 light brownish-gray, very dense.	
	1446	100%	5,8, 11,17		SC		
	872.2					At 64', a 3-inch coarse sand lens observed from 63.5'-63.75'.	
65	1359	100%	6,7, 10,10				
	1413					At 66', becomes 10YR 6/3 pale brown.	
	1455	100%	7,8, 12,14			Sand, 10YR 6/3 pale brown, fine- to coarse-grained, dense, moist, strong hydrocarbon odor, trace clay.	
	1548				SW		
	1279	100%	8,9, 10,13		SC	Sand, clayey, 10YR 6/3 pale brown, moist to very moist, medium dense, low plasticity, strong hydrocarbon odor,	
70 ▽	1651	TW-2 69-70'	8,12, 14		CL	Clay, 2.5Y 2.5/1 black, stiff, low plasticity, moist, strong hydrocarbon odor.	
	92.9						
	513.3	100%	4,8, 11		SC	Sand, clayey, 2.5Y 2.5/1 black, moist, medium dense, low plasticity, strong hydrocarbon odor.	
	941.4	100%	4,7, 7,14				
	1258					Sand, 2.5Y 2.5/1 black, coarse-grained, loose to medium dense, strong hydrocarbon odor, trace fines.	
75	850.1	100%	3,5, 8,9		SP		
▼	913.4	100%					
	1167		7, 50/15		CL	Clay, 2.5Y 2.5/1 black, stiff, medium plasticity, very moist turning moist, strong hydrocarbon odor.	
	973.3	94%					
	NR		3,2, 50/3		SW	Sand, 2.5Y 7/3 very pale brown, fine-grained, very dense, dry, strongly cemented.	
80	NR	81%					
	NM		2,5, 50/3			Sandstone, 2.5Y 7/3 very pale brown, moderate hydrocarbon odor,	
	1080	81%					
	NM		2,3, 50/2				
	50.2	79%				At 84.5', becomes 10YR 7/1 light gray, slight hydrocarbon odor.	
85	NM		50/5				
	390.4	10%				At 86', becomes 10YR 6/2 light brownish-gray.	
	NM		2,9, 50/4		SC	Sand, clayey, 2.5Y 6/2 light brownish-gray, fine-grained, medium dense, moist, low plasticity, no hydrocarbon odor.	
	159.6	35%					
	NM						
90						End of boring = 89'.	

Drilling Log

Stantec

Extraction Well **TW-3**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Surface Elev. *6115.28 ft* North *2147306.442* East *2646231.640*

Top of Casing *6117.84 ft* Water Level Initial ▽ *6043.84* 11/03/17 00:00 Static ▼ *6031.81* 11/10/17 00:00

Hole Depth *90.0 ft* Screen: Diameter *2 in* Length *5.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *100.0* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10-20 silica*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Andy Riemer*

Start Date *11/3/2017* Completion Date *11/3/2017* Checked By *Steve Varsa*

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

COMMENTS
NR = No recovery. NM = Not measured.

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	NM	100%			SM	Sand, silty, very dense, 4-inch diameter cemented sandstone fragments at 5'. Borehole hydro-excavated to 6' on 10/18/2017.	
	0.0						
	0.0						
5	0.0						
	NM				SC	Sand, little clay, 10YR 6/4 light yellowish-brown, medium dense, fine-grained, low plasticity, moist, no hydrocarbon odor.	
	NR	50%					
10	1.1						
	NR	40%					
	NR					At 12', becomes dense to very dense, damp, slight hydrocarbon odor.	
	NR						
	2.0						
15	2.6						
	NR	30%					
	NR						
	NR				SW	Sand, 10YR 5/4 yellowish-brown, fine-grained, dense, damp, no hydrocarbon odor, trace clay.	
	NR						
20	10.7		5,8,6				
	NR	100%					
	NR	29%			SC	Sand, clayey, 10YR 6/3 pale brown, medium dense, fine-grained, low plasticity, slight hydrocarbon odor.	
	NR						
	5.1						
25							

Continued Next Page

Drilling Log

Stantec

Extraction Well **TW-3**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
25	4.4						
	NR	40%			SC		
	NR					Sand, 10YR 6/3 pale brown, medium dense, fine-grained, dry, no hydrocarbon odor, trace clay.	
	NR						
	NR						
	8.2						
30	4.1						
	NR	100%	5,8,8				
	NR						
	NR	14%					
	NR				SW		
	2.9					At 34', becomes 10YR 6/2 light brownish-gray, fine- to coarse-grained, well graded, no clay, loose.	
35	10.1						
	NR	60%					
	NR						
	7.3						
	9.3						
40	8.7						
	15.3	100%	9,12, 11			Sand, 10YR 7/3 very pale brown, very dense, fine-grained, dry, no hydrocarbon odor, trace clay.	
	23.9						
	12.8	100%			SP		
	13.3						
45	10.9						
	24.2	100%					
	16.8					Clay, 10YR 5/3 brown, stiff, low plasticity, dry, no hydrocarbon odor.	
	11.4						
	58.1	TW-3 48-49'			CL		
50	26.3						
	7.5	100%	13,20, 20				
	5.3					Sand, 10YR 6/3 pale brown, dense, fine-grained, dry, slight hydrocarbon odor, trace clay.	
	20.0	100%					
	5.4						
55	31.3				SW	At 55', becomes very dense.	
	14.0	100%					
	7.2					At 57', becomes dense.	
	9.5						
						Continued Next Page	

Drilling Log

Extraction Well **TW-3**

Project *State Gas Com N#1* Client *EPCGPC*

Location *San Juan County, New Mexico* Project Number *193710206*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
	31.3				CL	Clay, 10YR 5/2 grayish-brown, stiff to very stiff, low to medium plasticity,	
	14.3	100%			CL	damp, no hydrocarbon odor.	
60	36.8		10,11, 9		SC	Sand. clayey, 10YR 6/3 pale brown, dense, fine-grained, low plasticity, damp, no hydrocarbon odor.	
	35.2	100%					
		100%	4,7, 10,12		CL	Clay, 10YR 5/3 brown, medium stiff, low plasticity, moist, no hydrocarbon odor.	
	24.9						
	18.4	100%	5,7, 11,16			At 64.5', becomes 10YR 5/2 grayish-brown.	
65	20.6				SC	Sand, clayey, 10YR 5/3 brown, medium dense, fine-grained, low plasticity,	
	39.4	100%	5,5, 7,18			moist, no hydrocarbon odor.	
	38.2				CL	Clay, 10YR 5/2 grayish-brown, medium stiff, low plasticity, moist, no	
			6,6, 11			hydrocarbon odor.	
	1675	100%			SC	Sand, clayey, 2.5Y 4/1 dark gray, medium dense, fine-grained, moist,	
	NM	TW-3 68-69'			SP	strong hydrocarbon odor.	
70	1399		7,10, 9,13			Sand, 2.5Y 5/1 gray, medium dense, fine-grained, very moist, very strong hydrocarbon odor.	
	1766				CL	Clay, 2.5Y 5/1 gray, medium plasticity, medium stiff, moist, strong hydrocarbon odor.	
	348.4	100%	3,8, 8,13				
	499.4	100%					
	132.1	100%	5,6, 8,11		SW	Sand, 2.5Y 2.5/1 black, fine- to medium-grained, loose, wet, well graded.	
75	98.2				CL	Clay, some sand, 2.5Y 5/2 grayish-brown, fine-grained, medium plasticity,	
	92.1	33%	16,33, 50/4			medium stiff, wet.	
	NM				SC	Sand, clayey, 2.5Y 7/3 pale yellow, fine-grained, dense, low plasticity,	
	40.3	36%	22,42, 50/5			moist, no hydrocarbon odor.	
	130.6					Silt, 2,5Y 7/3 pale yellow, very dense, moderately cemented, moist.	
80	NM	36%	2.8, 50/5		ML	At 80.5', becomes 2,5Y 6/3 light yellowish-brown.	
	NM						
	NM	15%	34, 50/1			At 82.5', becomes dry.	
	93.7					Siltstone, 2.5Y 6/3 light yellowish-brown.	
	NM	13%	50/6				
85	60.4						
	16.2	17%	28, 50/2			At 86', becomes 10YR 7/3 very pale brown.	
	NM					At 87', becomes 2.5Y 5/3 light olive-brown.	
	9.5	23%	16, 50/5				
	1.2						
			50/6				
90	NM	50%				End of boring = 90'.	

APPENDIX B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-145698-1
Client Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

For:
Stantec Consulting Services Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner

Carol M Webb

Authorized for release by:
11/16/2017 2:22:07 PM

Carol Webb, Project Manager II
(850)471-6250
carol.webb@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-145698-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-145698-1

Comments
No additional comments.

Receipt
The samples were received on 11/8/2017 8:42 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1° C.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-375282 and analytical batch 400-375377 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B: The following sample was diluted to bring the concentration of target analytes within the calibration range: TW-1 (68-69') (400-145698-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Client Sample ID: TW-1 (68-69') — Lab Sample ID: 400-145698-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C6-C10	3900		110		mg/Kg	1000	☼	8015B	Total/NA
Benzene	7.8		1.1		mg/Kg	1000	☼	8021B	Total/NA
Ethylbenzene	27		1.1		mg/Kg	1000	☼	8021B	Total/NA
Toluene	34		5.3		mg/Kg	1000	☼	8021B	Total/NA
Xylenes, Total	170		5.3		mg/Kg	1000	☼	8021B	Total/NA
C10-C28	1000		30		mg/Kg	5	☼	8015B	Total/NA
Chloride	96		24		mg/Kg	1	☼	300.0	Soluble

Client Sample ID: TW-2 (19-20') — Lab Sample ID: 400-145698-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C6-C10	510		23		mg/Kg	200	☼	8015B	Total/NA
Ethylbenzene	2.1		0.058		mg/Kg	50	☼	8021B	Total/NA
Toluene	1.2		0.29		mg/Kg	50	☼	8021B	Total/NA
Xylenes, Total	18		0.29		mg/Kg	50	☼	8021B	Total/NA
C10-C28	530	F1	6.5		mg/Kg	1	☼	8015B	Total/NA
Chloride	75		26		mg/Kg	1	☼	300.0	Soluble

Client Sample ID: TW-2 (41-42') — Lab Sample ID: 400-145698-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C6-C10	910		26		mg/Kg	250	☼	8015B	Total/NA
Benzene	0.077		0.051		mg/Kg	50	☼	8021B	Total/NA
Ethylbenzene	3.9		0.051		mg/Kg	50	☼	8021B	Total/NA
Toluene	2.1		0.26		mg/Kg	50	☼	8021B	Total/NA
Xylenes, Total	27		0.26		mg/Kg	50	☼	8021B	Total/NA
C10-C28	530		5.6		mg/Kg	1	☼	8015B	Total/NA
Chloride	32		22		mg/Kg	1	☼	300.0	Soluble

Client Sample ID: TW-2 (54-55') — Lab Sample ID: 400-145698-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C6-C10	990		27		mg/Kg	250	☼	8015B	Total/NA
Benzene	0.31		0.053		mg/Kg	50	☼	8021B	Total/NA
Ethylbenzene	3.7		0.053		mg/Kg	50	☼	8021B	Total/NA
Toluene	3.4		0.27		mg/Kg	50	☼	8021B	Total/NA
Xylenes, Total	26		0.27		mg/Kg	50	☼	8021B	Total/NA
C10-C28	500		6.1		mg/Kg	1	☼	8015B	Total/NA
Chloride	58		26		mg/Kg	1	☼	300.0	Soluble

Client Sample ID: TW-2 (69-70') — Lab Sample ID: 400-145698-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C6-C10	20		5.2		mg/Kg	50	☼	8015B	Total/NA
C10-C28	53		6.0		mg/Kg	1	☼	8015B	Total/NA
Chloride	160		24		mg/Kg	1	☼	300.0	Soluble

Client Sample ID: TW-3 (48-49') — Lab Sample ID: 400-145698-6

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Client Sample ID: TW-3 (48-49') (Continued) — Lab Sample ID: 400-145698-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.38		0.11		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.0049		0.0011		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.085		0.0057		mg/Kg	1	☼	8021B	Total/NA
C10-C28	8.2		5.9		mg/Kg	1	☼	8015B	Total/NA
Chloride	390		24		mg/Kg	1	☼	300.0	Soluble

Client Sample ID: TW-3 (68-69') — Lab Sample ID: 400-145698-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C6-C10	16		5.0		mg/Kg	50	☼	8015B	Total/NA
Benzene	0.0018		0.0011		mg/Kg	1	☼	8021B	Total/NA
Ethylbenzene	0.0027		0.0011		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.023		0.0057		mg/Kg	1	☼	8021B	Total/NA
C10-C28	22		6.0		mg/Kg	1	☼	8015B	Total/NA
Chloride	130		25		mg/Kg	1	☼	300.0	Soluble

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-145698-1	TW-1 (68-69')	Solid	10/31/17 14:35	11/08/17 08:42
400-145698-2	TW-2 (19-20')	Solid	11/01/17 16:10	11/08/17 08:42
400-145698-3	TW-2 (41-42')	Solid	11/02/17 08:25	11/08/17 08:42
400-145698-4	TW-2 (54-55')	Solid	11/02/17 09:20	11/08/17 08:42
400-145698-5	TW-2 (69-70')	Solid	11/02/17 10:50	11/08/17 08:42
400-145698-6	TW-3 (48-49')	Solid	11/03/17 10:20	11/08/17 08:42
400-145698-7	TW-3 (68-69')	Solid	11/03/17 13:10	11/08/17 08:42

Client Sample ID: TW-1 (68-69')
Date Collected: 10/31/17 14:35
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-1
Matrix: Solid
Percent Solids: 82.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	3900		110		mg/Kg	☼	11/13/17 12:05	11/13/17 20:26	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*84*		*65 - 125*	*11/13/17 12:05*	*11/13/17 20:26*	*1000*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.8		1.1		mg/Kg	☼	11/13/17 12:05	11/13/17 20:26	1000
Ethylbenzene	27		1.1		mg/Kg	☼	11/13/17 12:05	11/13/17 20:26	1000
Toluene	34		5.3		mg/Kg	☼	11/13/17 12:05	11/13/17 20:26	1000
Xylenes, Total	170		5.3		mg/Kg	☼	11/13/17 12:05	11/13/17 20:26	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*88*		*40 - 150*	*11/13/17 12:05*	*11/13/17 20:26*	*1000*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1000		30		mg/Kg	☼	11/09/17 11:45	11/10/17 14:09	5
C28-C35	<5.9		5.9		mg/Kg	☼	11/09/17 11:45	11/09/17 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*27 - 151*	*11/09/17 11:45*	*11/09/17 21:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96		24		mg/Kg	☼		11/14/17 08:55	1

Client Sample ID: TW-2 (19-20')
Date Collected: 11/01/17 16:10
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-2
Matrix: Solid
Percent Solids: 76.8

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	510		23		mg/Kg	☼	11/13/17 12:05	11/15/17 13:15	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*93*		*65 - 125*	*11/13/17 12:05*	*11/15/17 13:15*	*200*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.058		0.058		mg/Kg	☼	11/13/17 12:05	11/13/17 16:56	50
Ethylbenzene	2.1		0.058		mg/Kg	☼	11/13/17 12:05	11/13/17 16:56	50
Toluene	1.2		0.29		mg/Kg	☼	11/13/17 12:05	11/13/17 16:56	50
Xylenes, Total	18		0.29		mg/Kg	☼	11/13/17 12:05	11/13/17 16:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*116*		*40 - 150*	*11/13/17 12:05*	*11/13/17 16:56*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	530	F1	6.5		mg/Kg	☼	11/09/17 11:45	11/09/17 21:09	1
C28-C35	<6.5		6.5		mg/Kg	☼	11/09/17 11:45	11/09/17 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*27 - 151*	*11/09/17 11:45*	*11/09/17 21:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		26		mg/Kg	☼		11/14/17 09:18	1

Client Sample ID: TW-2 (41-42')

Date Collected: 11/02/17 08:25
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-3

Matrix: Solid
Percent Solids: 88.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	910		26		mg/Kg	☼	11/13/17 12:05	11/15/17 13:41	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*	*11/13/17 12:05*	*11/15/17 13:41*	*250*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.077		0.051		mg/Kg	☼	11/13/17 12:05	11/13/17 17:22	50
Ethylbenzene	3.9		0.051		mg/Kg	☼	11/13/17 12:05	11/13/17 17:22	50
Toluene	2.1		0.26		mg/Kg	☼	11/13/17 12:05	11/13/17 17:22	50
Xylenes, Total	27		0.26		mg/Kg	☼	11/13/17 12:05	11/13/17 17:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*83*		*40 - 150*	*11/13/17 12:05*	*11/13/17 17:22*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	530		5.6		mg/Kg	☼	11/09/17 11:45	11/09/17 21:56	1
C28-C35	<5.6		5.6		mg/Kg	☼	11/09/17 11:45	11/09/17 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*27 - 151*	*11/09/17 11:45*	*11/09/17 21:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		22		mg/Kg	☼		11/14/17 09:41	1

Client Sample ID: TW-2 (54-55')

Date Collected: 11/02/17 09:20
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-4

Matrix: Solid
Percent Solids: 81.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	990		27		mg/Kg	☼	11/13/17 12:05	11/15/17 14:07	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*85*		*65 - 125*	*11/13/17 12:05*	*11/15/17 14:07*	*250*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.31		0.053		mg/Kg	☼	11/13/17 12:05	11/13/17 17:48	50
Ethylbenzene	3.7		0.053		mg/Kg	☼	11/13/17 12:05	11/13/17 17:48	50
Toluene	3.4		0.27		mg/Kg	☼	11/13/17 12:05	11/13/17 17:48	50
Xylenes, Total	26		0.27		mg/Kg	☼	11/13/17 12:05	11/13/17 17:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*84*		*40 - 150*	*11/13/17 12:05*	*11/13/17 17:48*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	500		6.1		mg/Kg	☼	11/09/17 11:45	11/09/17 22:07	1
C28-C35	<6.1		6.1		mg/Kg	☼	11/09/17 11:45	11/09/17 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*27 - 151*	*11/09/17 11:45*	*11/09/17 22:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58		26		mg/Kg	☼		11/14/17 10:49	1

Client Sample ID: TW-2 (69-70')

Date Collected: 11/02/17 10:50
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-5

Matrix: Solid
Percent Solids: 82.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	**20**		5.2		mg/Kg	☼	11/13/17 12:05	11/15/17 14:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*65 - 125*	*11/13/17 12:05*	*11/15/17 14:33*	*50*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0012		0.0012		mg/Kg	☼	11/14/17 11:00	11/14/17 16:41	1
Ethylbenzene	<0.0012		0.0012		mg/Kg	☼	11/14/17 11:00	11/14/17 16:41	1
Toluene	<0.0061		0.0061		mg/Kg	☼	11/14/17 11:00	11/14/17 16:41	1
Xylenes, Total	<0.0061		0.0061		mg/Kg	☼	11/14/17 11:00	11/14/17 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*40 - 150*	*11/14/17 11:00*	*11/14/17 16:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**53**		6.0		mg/Kg	☼	11/09/17 11:45	11/09/17 22:30	1
C28-C35	<6.0		6.0		mg/Kg	☼	11/09/17 11:45	11/09/17 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*27 - 151*	*11/09/17 11:45*	*11/09/17 22:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		24		mg/Kg	☼		11/14/17 11:12	1

Client Sample ID: TW-3 (48-49')

Date Collected: 11/03/17 10:20
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-6

Matrix: Solid
Percent Solids: 84.5

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	**0.38**		0.11		mg/Kg	☼	11/14/17 11:00	11/14/17 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*65 - 125*	*11/14/17 11:00*	*11/14/17 17:18*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0011		0.0011		mg/Kg	☼	11/14/17 11:00	11/14/17 17:18	1
Ethylbenzene	**0.0049**		0.0011		mg/Kg	☼	11/14/17 11:00	11/14/17 17:18	1
Toluene	<0.0057		0.0057		mg/Kg	☼	11/14/17 11:00	11/14/17 17:18	1
Xylenes, Total	**0.085**		0.0057		mg/Kg	☼	11/14/17 11:00	11/14/17 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*40 - 150*	*11/14/17 11:00*	*11/14/17 17:18*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**8.2**		5.9		mg/Kg	☼	11/09/17 11:45	11/09/17 22:42	1
C28-C35	<5.9		5.9		mg/Kg	☼	11/09/17 11:45	11/09/17 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*27 - 151*	*11/09/17 11:45*	*11/09/17 22:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		24		mg/Kg	☼		11/14/17 11:35	1

Client Sample ID: TW-3 (68-69')

Date Collected: 11/03/17 13:10
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-7

Matrix: Solid
Percent Solids: 81.6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	**16**		5.0		mg/Kg	☼	11/13/17 12:05	11/13/17 19:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*65 - 125*	*11/13/17 12:05*	*11/13/17 19:09*	*50*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0018**		0.0011		mg/Kg	☼	11/14/17 11:00	11/14/17 20:57	1
Ethylbenzene	**0.0027**		0.0011		mg/Kg	☼	11/14/17 11:00	11/14/17 20:57	1
Toluene	<0.0057		0.0057		mg/Kg	☼	11/14/17 11:00	11/14/17 20:57	1
Xylenes, Total	**0.023**		0.0057		mg/Kg	☼	11/14/17 11:00	11/14/17 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*40 - 150*	*11/14/17 11:00*	*11/14/17 20:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**22**		6.0		mg/Kg	☼	11/09/17 11:45	11/09/17 22:53	1
C28-C35	<6.0		6.0		mg/Kg	☼	11/09/17 11:45	11/09/17 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*27 - 151*	*11/09/17 11:45*	*11/09/17 22:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		25		mg/Kg	☼		11/14/17 11:58	1

GC VOA

Analysis Batch: 375675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Total/NA	Solid	8021B	375723
400-145698-2	TW-2 (19-20')	Total/NA	Solid	8021B	375723
400-145698-3	TW-2 (41-42')	Total/NA	Solid	8021B	375723
400-145698-4	TW-2 (54-55')	Total/NA	Solid	8021B	375723
MB 400-375723/3-A	Method Blank	Total/NA	Solid	8021B	375723
LCS 400-375723/2-A	Lab Control Sample	Total/NA	Solid	8021B	375723
400-145698-1 MS	TW-1 (68-69')	Total/NA	Solid	8021B	375723
400-145698-1 MSD	TW-1 (68-69')	Total/NA	Solid	8021B	375723

Analysis Batch: 375676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Total/NA	Solid	8015B	375723
400-145698-2	TW-2 (19-20')	Total/NA	Solid	8015B	375723
400-145698-3	TW-2 (41-42')	Total/NA	Solid	8015B	375723
400-145698-4	TW-2 (54-55')	Total/NA	Solid	8015B	375723
400-145698-5	TW-2 (69-70')	Total/NA	Solid	8015B	375723
400-145698-7	TW-3 (68-69')	Total/NA	Solid	8015B	375723
MB 400-375723/3-A	Method Blank	Total/NA	Solid	8015B	375723
LCS 400-375723/1-A	Lab Control Sample	Total/NA	Solid	8015B	375723
400-145698-1 MS	TW-1 (68-69')	Total/NA	Solid	8015B	375723
400-145698-1 MSD	TW-1 (68-69')	Total/NA	Solid	8015B	375723

Prep Batch: 375723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Total/NA	Solid	5035	
400-145698-2	TW-2 (19-20')	Total/NA	Solid	5035	
400-145698-3	TW-2 (41-42')	Total/NA	Solid	5035	
400-145698-4	TW-2 (54-55')	Total/NA	Solid	5035	
400-145698-5	TW-2 (69-70')	Total/NA	Solid	5035	
400-145698-7	TW-3 (68-69')	Total/NA	Solid	5035	
MB 400-375723/3-A	Method Blank	Total/NA	Solid	5035	
LCS 400-375723/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 400-375723/2-A	Lab Control Sample	Total/NA	Solid	5035	
400-145698-1 MS	TW-1 (68-69')	Total/NA	Solid	5035	
400-145698-1 MSD	TW-1 (68-69')	Total/NA	Solid	5035	

Analysis Batch: 375813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-5	TW-2 (69-70')	Total/NA	Solid	8021B	375857
400-145698-6	TW-3 (48-49')	Total/NA	Solid	8021B	375857
400-145698-7	TW-3 (68-69')	Total/NA	Solid	8021B	375857
MB 400-375813/4	Method Blank	Total/NA	Solid	8021B	
LCS 400-375857/2-A	Lab Control Sample	Total/NA	Solid	8021B	375857
400-145697-B-2-D MS	Matrix Spike	Total/NA	Solid	8021B	375857
400-145697-B-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	375857

Analysis Batch: 375814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-6	TW-3 (48-49')	Total/NA	Solid	8015B	375857
MB 400-375814/4	Method Blank	Total/NA	Solid	8015B	
LCS 400-375857/3-A	Lab Control Sample	Total/NA	Solid	8015B	375857

GC VOA (Continued)

Analysis Batch: 375814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145697-B-2-F MS	Matrix Spike	Total/NA	Solid	8015B	375857
400-145697-B-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	375857

Prep Batch: 375857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-5	TW-2 (69-70')	Total/NA	Solid	5035	
400-145698-6	TW-3 (48-49')	Total/NA	Solid	5035	
400-145698-7	TW-3 (68-69')	Total/NA	Solid	5035	
LCS 400-375857/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 400-375857/3-A	Lab Control Sample	Total/NA	Solid	5035	
400-145697-B-2-D MS	Matrix Spike	Total/NA	Solid	5035	
400-145697-B-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
400-145697-B-2-F MS	Matrix Spike	Total/NA	Solid	5035	
400-145697-B-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 375282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Total/NA	Solid	3546	
400-145698-2	TW-2 (19-20')	Total/NA	Solid	3546	
400-145698-3	TW-2 (41-42')	Total/NA	Solid	3546	
400-145698-4	TW-2 (54-55')	Total/NA	Solid	3546	
400-145698-5	TW-2 (69-70')	Total/NA	Solid	3546	
400-145698-6	TW-3 (48-49')	Total/NA	Solid	3546	
400-145698-7	TW-3 (68-69')	Total/NA	Solid	3546	
MB 400-375282/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-375282/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-145698-2 MS	TW-2 (19-20')	Total/NA	Solid	3546	
400-145698-2 MSD	TW-2 (19-20')	Total/NA	Solid	3546	

Analysis Batch: 375377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Total/NA	Solid	8015B	375282
400-145698-2	TW-2 (19-20')	Total/NA	Solid	8015B	375282
400-145698-3	TW-2 (41-42')	Total/NA	Solid	8015B	375282
400-145698-4	TW-2 (54-55')	Total/NA	Solid	8015B	375282
400-145698-5	TW-2 (69-70')	Total/NA	Solid	8015B	375282
400-145698-6	TW-3 (48-49')	Total/NA	Solid	8015B	375282
400-145698-7	TW-3 (68-69')	Total/NA	Solid	8015B	375282
MB 400-375282/1-A	Method Blank	Total/NA	Solid	8015B	375282
LCS 400-375282/2-A	Lab Control Sample	Total/NA	Solid	8015B	375282
400-145698-2 MS	TW-2 (19-20')	Total/NA	Solid	8015B	375282
400-145698-2 MSD	TW-2 (19-20')	Total/NA	Solid	8015B	375282

Analysis Batch: 375486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Total/NA	Solid	8015B	375282

HPLC/IC

Leach Batch: 375725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Soluble	Solid	DI Leach	
400-145698-2	TW-2 (19-20')	Soluble	Solid	DI Leach	
400-145698-3	TW-2 (41-42')	Soluble	Solid	DI Leach	
400-145698-4	TW-2 (54-55')	Soluble	Solid	DI Leach	
400-145698-5	TW-2 (69-70')	Soluble	Solid	DI Leach	
400-145698-6	TW-3 (48-49')	Soluble	Solid	DI Leach	
400-145698-7	TW-3 (68-69')	Soluble	Solid	DI Leach	
MB 400-375725/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-375725/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-375725/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
400-145697-B-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
400-145697-B-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 375895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Soluble	Solid	300.0	375725
400-145698-2	TW-2 (19-20')	Soluble	Solid	300.0	375725
400-145698-3	TW-2 (41-42')	Soluble	Solid	300.0	375725
400-145698-4	TW-2 (54-55')	Soluble	Solid	300.0	375725
400-145698-5	TW-2 (69-70')	Soluble	Solid	300.0	375725
400-145698-6	TW-3 (48-49')	Soluble	Solid	300.0	375725
400-145698-7	TW-3 (68-69')	Soluble	Solid	300.0	375725
MB 400-375725/1-A	Method Blank	Soluble	Solid	300.0	375725
LCS 400-375725/2-A	Lab Control Sample	Soluble	Solid	300.0	375725
LCSD 400-375725/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	375725
400-145697-B-1-C MS	Matrix Spike	Soluble	Solid	300.0	375725
400-145697-B-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	375725

General Chemistry

Analysis Batch: 375339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-1	TW-1 (68-69')	Total/NA	Solid	Moisture	
400-145615-A-6 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 375412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145698-2	TW-2 (19-20')	Total/NA	Solid	Moisture	
400-145698-3	TW-2 (41-42')	Total/NA	Solid	Moisture	
400-145698-4	TW-2 (54-55')	Total/NA	Solid	Moisture	
400-145698-5	TW-2 (69-70')	Total/NA	Solid	Moisture	
400-145698-6	TW-3 (48-49')	Total/NA	Solid	Moisture	
400-145698-7	TW-3 (68-69')	Total/NA	Solid	Moisture	
400-145577-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-375723/3-A
Matrix: Solid
Analysis Batch: 375676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375723

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<5.0		5.0		mg/Kg		11/13/17 12:05	11/13/17 14:58	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*	*11/13/17 12:05*	*11/13/17 14:58*	*50*

Lab Sample ID: LCS 400-375723/1-A
Matrix: Solid
Analysis Batch: 375676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375723

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10			50.0	55.1		mg/Kg		110	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*

Lab Sample ID: 400-145698-1 MS
Matrix: Solid
Analysis Batch: 375676

Client Sample ID: TW-1 (68-69')
Prep Type: Total/NA
Prep Batch: 375723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10	3900		1070	4650		mg/Kg	☼	74	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*82*		*65 - 125*

Lab Sample ID: 400-145698-1 MSD
Matrix: Solid
Analysis Batch: 375676

Client Sample ID: TW-1 (68-69')
Prep Type: Total/NA
Prep Batch: 375723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	3900		1070	5050		mg/Kg	☼	112	10 - 150	8	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*83*		*65 - 125*

Lab Sample ID: MB 400-375814/4
Matrix: Solid
Analysis Batch: 375814

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<0.10		0.10		mg/Kg			11/14/17 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*65 - 125*		*11/14/17 12:22*	*1*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 400-375857/3-A
Matrix: Solid
Analysis Batch: 375814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375857

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10			1.00	1.11		mg/Kg		111	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*

Lab Sample ID: 400-145697-B-2-F MS
Matrix: Solid
Analysis Batch: 375814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 375857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10	<0.10		1.03	1.09		mg/Kg	☼	101	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*

Lab Sample ID: 400-145697-B-2-G MSD
Matrix: Solid
Analysis Batch: 375814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 375857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	<0.10		1.02	1.10		mg/Kg	☼	102	10 - 150	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-375723/3-A
Matrix: Solid
Analysis Batch: 375675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375723

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.050		0.050		mg/Kg		11/13/17 12:05	11/13/17 14:58	50
Ethylbenzene	<0.050		0.050		mg/Kg		11/13/17 12:05	11/13/17 14:58	50
Toluene	<0.25		0.25		mg/Kg		11/13/17 12:05	11/13/17 14:58	50
Xylenes, Total	<0.25		0.25		mg/Kg		11/13/17 12:05	11/13/17 14:58	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*40 - 150*	*11/13/17 12:05*	*11/13/17 14:58*	*50*

Lab Sample ID: LCS 400-375723/2-A
Matrix: Solid
Analysis Batch: 375675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375723

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			2.50	2.45		mg/Kg		98	74 - 127		
Ethylbenzene			2.50	2.40		mg/Kg		96	79 - 131		

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-375723/2-A
Matrix: Solid
Analysis Batch: 375675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375723

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toluene			2.50	2.44		mg/Kg		97	76 - 127		
Xylenes, Total			7.50	7.30		mg/Kg		97	80 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*98*		*40 - 150*

Lab Sample ID: 400-145698-1 MS
Matrix: Solid
Analysis Batch: 375675

Client Sample ID: TW-1 (68-69')
Prep Type: Total/NA
Prep Batch: 375723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	7.8		53.3	55.5		mg/Kg	☼	89	10 - 150		
Ethylbenzene	27		53.3	78.5		mg/Kg	☼	96	10 - 150		
Toluene	34		53.3	84.6		mg/Kg	☼	96	10 - 150		
Xylenes, Total	170		160	337		mg/Kg	☼	106	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*84*		*40 - 150*

Lab Sample ID: 400-145698-1 MSD
Matrix: Solid
Analysis Batch: 375675

Client Sample ID: TW-1 (68-69')
Prep Type: Total/NA
Prep Batch: 375723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	7.8		53.3	56.4		mg/Kg	☼	91	10 - 150	2	34
Ethylbenzene	27		53.3	79.4		mg/Kg	☼	97	10 - 150	1	66
Toluene	34		53.3	85.4		mg/Kg	☼	97	10 - 150	1	44
Xylenes, Total	170		160	342		mg/Kg	☼	110	50 - 150	2	46

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*84*		*40 - 150*

Lab Sample ID: MB 400-375813/4
Matrix: Solid
Analysis Batch: 375813

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0010		0.0010		mg/Kg			11/14/17 12:22	1
Ethylbenzene	<0.0010		0.0010		mg/Kg			11/14/17 12:22	1
Toluene	<0.0050		0.0050		mg/Kg			11/14/17 12:22	1
Xylenes, Total	<0.0050		0.0050		mg/Kg			11/14/17 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*40 - 150*		*11/14/17 12:22*	*1*

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-375857/2-A
Matrix: Solid
Analysis Batch: 375813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0457		mg/Kg		91	74 - 127
Ethylbenzene	0.0500	0.0455		mg/Kg		91	79 - 131
Toluene	0.0500	0.0462		mg/Kg		92	76 - 127
Xylenes, Total	0.150	0.136		mg/Kg		91	80 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*40 - 150*

Lab Sample ID: 400-145697-B-2-D MS
Matrix: Solid
Analysis Batch: 375813

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 375857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.0010		0.0516	0.0506		mg/Kg	☼	98	10 - 150
Ethylbenzene	<0.0010		0.0516	0.0515		mg/Kg	☼	100	10 - 150
Toluene	<0.0050		0.0516	0.0512		mg/Kg	☼	96	10 - 150
Xylenes, Total	0.0050		0.155	0.154		mg/Kg	☼	97	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*40 - 150*

Lab Sample ID: 400-145697-B-2-E MSD
Matrix: Solid
Analysis Batch: 375813

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 375857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.0010		0.0511	0.0489		mg/Kg	☼	96	10 - 150	3	34
Ethylbenzene	<0.0010		0.0511	0.0500		mg/Kg	☼	98	10 - 150	3	66
Toluene	<0.0050		0.0511	0.0493		mg/Kg	☼	93	10 - 150	4	44
Xylenes, Total	0.0050		0.153	0.150		mg/Kg	☼	94	50 - 150	3	46

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*40 - 150*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-375282/1-A
Matrix: Solid
Analysis Batch: 375377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375282

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.0		5.0	mg/Kg		11/09/17 11:45	11/09/17 20:22	1
C28-C35	<5.0		5.0	mg/Kg		11/09/17 11:45	11/09/17 20:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*27 - 151*	*11/09/17 11:45*	*11/09/17 20:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 400-375282/2-A
Matrix: Solid
Analysis Batch: 375377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375282

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			327	234		mg/Kg		72	63 - 153		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*74*		*27 - 151*

Lab Sample ID: 400-145698-2 MS
Matrix: Solid
Analysis Batch: 375377

Client Sample ID: TW-2 (19-20')
Prep Type: Total/NA
Prep Batch: 375282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	530	F1	423	753	F1	mg/Kg	☼	53	62 - 204		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*75*		*27 - 151*

Lab Sample ID: 400-145698-2 MSD
Matrix: Solid
Analysis Batch: 375377

Client Sample ID: TW-2 (19-20')
Prep Type: Total/NA
Prep Batch: 375282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	530	F1	425	784	F1	mg/Kg	☼	60	62 - 204	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*73*		*27 - 151*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-375725/1-A
Matrix: Solid
Analysis Batch: 375895

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20		mg/Kg			11/14/17 06:15	1

Lab Sample ID: LCS 400-375725/2-A
Matrix: Solid
Analysis Batch: 375895

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			99.6	95.1		mg/Kg		95	80 - 120		

Lab Sample ID: LCSD 400-375725/3-A
Matrix: Solid
Analysis Batch: 375895

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			98.8	93.6		mg/Kg		95	80 - 120	2	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-145697-B-1-C MS
Matrix: Solid
Analysis Batch: 375895

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	<23		115	121		mg/Kg	☼	93	80 - 120		

Lab Sample ID: 400-145697-B-1-D MSD
Matrix: Solid
Analysis Batch: 375895

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<23		115	122		mg/Kg	☼	93	80 - 120	1	15

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Client Sample ID: TW-1 (68-69')
Date Collected: 10/31/17 14:35
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			375339	11/09/17 14:26	MEP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: TW-1 (68-69')
Date Collected: 10/31/17 14:35
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-1
Matrix: Solid
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.67 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8015B		1000	5 mL	5 mL	375676	11/13/17 20:26	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.67 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8021B		1000	5 mL	5 mL	375675	11/13/17 20:26	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.34 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		1			375377	11/09/17 21:44	TAJ	TAL PEN
	Instrument ID: Eva									
Total/NA	Prep	3546			15.34 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		5			375486	11/10/17 14:09	TAJ	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.48 g	50 mL	375725	11/13/17 14:24	JAW	TAL PEN
Soluble	Analysis	300.0		1			375895	11/14/17 08:55	JAW	TAL PEN
	Instrument ID: IC2									

Client Sample ID: TW-2 (19-20')
Date Collected: 11/01/17 16:10
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			375412	11/10/17 10:26	MEP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: TW-2 (19-20')
Date Collected: 11/01/17 16:10
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-2
Matrix: Solid
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.62 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8015B		200	5 mL	5 mL	375676	11/15/17 13:15	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.62 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	375675	11/13/17 16:56	GRK	TAL PEN
	Instrument ID: CH_RITA									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Client Sample ID: TW-2 (19-20')

Lab Sample ID: 400-145698-2
Date Collected: 11/01/17 16:10
Matrix: Solid
Date Received: 11/08/17 08:42
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		1			375377	11/09/17 21:09	TAJ	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.50 g	50 mL	375725	11/13/17 14:24	JAW	TAL PEN
Soluble	Analysis	300.0		1			375895	11/14/17 09:18	JAW	TAL PEN
	Instrument ID: IC2									

Client Sample ID: TW-2 (41-42')

Lab Sample ID: 400-145698-3
Date Collected: 11/02/17 08:25
Matrix: Solid
Date Received: 11/08/17 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			375412	11/10/17 10:26	MEP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: TW-2 (41-42')

Lab Sample ID: 400-145698-3
Date Collected: 11/02/17 08:25
Matrix: Solid
Date Received: 11/08/17 08:42
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.56 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8015B		250	5 mL	5 mL	375676	11/15/17 13:41	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.56 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	375675	11/13/17 17:22	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.30 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		1			375377	11/09/17 21:56	TAJ	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.53 g	50 mL	375725	11/13/17 14:24	JAW	TAL PEN
Soluble	Analysis	300.0		1			375895	11/14/17 09:41	JAW	TAL PEN
	Instrument ID: IC2									

Client Sample ID: TW-2 (54-55')

Lab Sample ID: 400-145698-4
Date Collected: 11/02/17 09:20
Matrix: Solid
Date Received: 11/08/17 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			375412	11/10/17 10:26	MEP	TAL PEN
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Client Sample ID: TW-2 (54-55')

Lab Sample ID: 400-145698-4
Date Collected: 11/02/17 09:20
Matrix: Solid
Date Received: 11/08/17 08:42
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.80 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8015B		250	5 mL	5 mL	375676	11/15/17 14:07	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.80 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	375675	11/13/17 17:48	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.23 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		1			375377	11/09/17 22:07	TAJ	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.41 g	50 mL	375725	11/13/17 14:24	JAW	TAL PEN
Soluble	Analysis	300.0		1			375895	11/14/17 10:49	JAW	TAL PEN
	Instrument ID: IC2									

Client Sample ID: TW-2 (69-70')

Lab Sample ID: 400-145698-5
Date Collected: 11/02/17 10:50
Matrix: Solid
Date Received: 11/08/17 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			375412	11/10/17 10:26	MEP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: TW-2 (69-70')

Lab Sample ID: 400-145698-5
Date Collected: 11/02/17 10:50
Matrix: Solid
Date Received: 11/08/17 08:42
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.82 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	375676	11/15/17 14:33	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.01 g	5.0 g	375857	11/14/17 11:00	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	375813	11/14/17 16:41	GRK	TAL PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.07 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		1			375377	11/09/17 22:30	TAJ	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.49 g	50 mL	375725	11/13/17 14:24	JAW	TAL PEN
Soluble	Analysis	300.0		1			375895	11/14/17 11:12	JAW	TAL PEN
	Instrument ID: IC2									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Client Sample ID: TW-3 (48-49')

Lab Sample ID: 400-145698-6
Date Collected: 11/03/17 10:20
Matrix: Solid
Date Received: 11/08/17 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			375412	11/10/17 10:26	MEP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: TW-3 (48-49')

Lab Sample ID: 400-145698-6
Date Collected: 11/03/17 10:20
Matrix: Solid
Date Received: 11/08/17 08:42
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.19 g	5.0 g	375857	11/14/17 11:00	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	375814	11/14/17 17:18	GRK	TAL PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	5035			5.19 g	5.0 g	375857	11/14/17 11:00	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	375813	11/14/17 17:18	GRK	TAL PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.07 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		1			375377	11/09/17 22:42	TAJ	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.51 g	50 mL	375725	11/13/17 14:24	JAW	TAL PEN
Soluble	Analysis	300.0		1			375895	11/14/17 11:35	JAW	TAL PEN
	Instrument ID: IC2									

Client Sample ID: TW-3 (68-69')

Lab Sample ID: 400-145698-7
Date Collected: 11/03/17 13:10
Matrix: Solid
Date Received: 11/08/17 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			375412	11/10/17 10:26	MEP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: TW-3 (68-69')

Lab Sample ID: 400-145698-7
Date Collected: 11/03/17 13:10
Matrix: Solid
Date Received: 11/08/17 08:42
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.16 g	5.0 g	375723	11/13/17 12:05	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	375676	11/13/17 19:09	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.40 g	5.0 g	375857	11/14/17 11:00	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	375813	11/14/17 20:57	GRK	TAL PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.21 g	1.0 mL	375282	11/09/17 11:45	KLR	TAL PEN
Total/NA	Analysis	8015B		1			375377	11/09/17 22:53	TAJ	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.50 g	50 mL	375725	11/13/17 14:24	JAW	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Client Sample ID: TW-3 (68-69')
Date Collected: 11/03/17 13:10
Date Received: 11/08/17 08:42

Lab Sample ID: 400-145698-7
Matrix: Solid
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	300.0		1			375895	11/14/17 11:58	JAW	TAL PEN
	Instrument ID: IC2									

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
TestAmerica Job ID: 400-145698-1
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	12-31-17
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-145698-1

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL PEN
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Andrew Riemer	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-68724-27873.2
Client Contact: Clint Oberbroeckling	Phone: 651.600.2308	E-Mail: carol.webb@testamericainc.com		Page: Page 2 of 2
Company: Stantec Consulting Services Inc				Job #: 193710206

Address: 11153 Aurora Avenue	Due Date Requested: PER ARP	
City: Des Moines	TAT Requested (days): STANDARD TAT	
State, Zip: IA, 50322-7904		
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested	
Email: clint.w.oberbroeckling@mwhglobal.com	WO #:	
Project Name: State Gas Com N#1 Soil	Project #: 40005479	
Site: Aztec, New Mexico	SSOW#:	

Analysis Requested

400-145698 COC

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO - TPH DRO ORO, Chloride (Method 300)	8015B_GRO, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
TW-1 (68-69')	10/31/17	1435	G	S			N	N		
TW-2 (19-20')	11/01/17	1610	G	S			N	N		
TW-2 (41-42')	11/02/17	0825	G	S			N	N		
TW-2 (54-55')	11/02/17	0920	G	S			N	N		
TW-2 (69-70')	11/02/17	1050	G	S			N	N		
TW-3 (48-49')	11/03/17	1020	G	S			N	N		
TW-3 (68-69')	11/03/17	1310	G	S			N	N		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by: Andrew C. Riem	11/07/2017 @ 1445	STANTEC		11.8.17 0842	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.1 C IR7 JJ

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-145698-1

Login Number: 145698
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 687962
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 6-8-17

DEL. TKT#.

GENERATOR: El Paso

BILL TO: El Paso

HAULING CO. [illegible]

DRIVER: Sarah Gardner
(Print Full Name)

ORDERED BY: Joseph Wiley

CODES:

WASTE DESCRIPTION: ☒ **Exempt Oilfield Waste** ☐ Produced Water ☐ Drilling/Completion Fluids ☐ Reserve Pit

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	01	Jones Frank #1E	1	750			750 '17 JUN 8	4:13PM
2		State Gas Com #1 Canada Mesa #2						
3		M.L. Stred 1A Fields A #2A						
4		Lindrith B #24 Hammond #41A						
5		Knight #1 K721D072						

I, [signature] representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☐ Approved ☐ Denied ATTENDANT SIGNATURE [signature]

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envirotech

Bill of Lading

MANIFEST # 58137
GENERATOR El Paso
POINT OF ORIGIN State Gas Com N 1
TRANSPORTER Sierra Oil Field
DATE 11-6-17 JOB # 14073-0026

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II	Cont Soil	B10		20		04	1420	
					20				

RESULTS			LANDFARM EMPLOYEE	NOTES
<295	CHLORIDE TEST	1	Gary Robinson EL	Droped of 20 BBLS Dumped Decon. Dissrose
	PAINT FILTER TEST	1	Certification of above receival & placement	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

san juan reproduction 576-126

20.

envirotech BOL# 58137

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-6-17 TIME 1420 Attach test strip here

CUSTOMER El Paso

SITE State Gas Com N 1

DRIVER Norman Hamptley

SAMPLE (Soil) Straight ✓ With Dirt _____

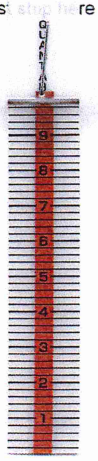
CHLORIDE TEST 295 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1420 Time completed 1430

PASS YES ✓ NO _____

SAMPLER/ANALYST Gary Robinson



5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-inc.com

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 699271

NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11-6-17

GENERATOR: El Pasco

HAULING CO. Sierra Oil Corp

ORDERED BY: Joseph W

DEL. TKT#.

BILL TO: El Pasco

DRIVER: Ryan
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☑ Produced Water ☐ Drilling/Completion Fluids ☐ Reserve Pit

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		State Gas Com	7	70			490	
2							'17 NOV 6 10:07 AM	
3								
4								
5								

J. R. D. representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☑ Approved ☐ Denied ATTENDANT SIGNATURE

san juan reproduction 168-6

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 699930
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11.12.17

GENERATOR: El Paso

HAULING CO. Stantec

ORDERED BY: Joe Wiley

DEL. TKT#.

BILL TO: Stantec

DRIVER: Sam Spiering
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☐ Produced Water ☑ Drilling/Completion Fluids ☐ Reserve Pit

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Fogelson 4-1	1	70			70 17 NOV 12	1:45PM
2		State Gas Com, Knight, JF Bell Lat L-40, Std Oil Com						
3		Sandoval, GCU 124E, J-Fed 4 J-Fed 6						
4								
5								

I, [signature], representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☑ Approved ☐ Denied ATTENDANT SIGNATURE [signature]

san juan reproduction 168-6

APPENDIX D

From: Varsa, Steve
To: Randolph.Bayliss@state.nm.us
Cc: brandon.powell@state.nm.us; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Tuesday, May 30, 2017 3:05:18 PM

Hi Randy –

This correspondence is to provide notice to the NMOCD of upcoming semi-annual groundwater sampling and monitoring activities at the following project sites:

Site Name	NMOCD Case #
Canada Mesa #2	3RP-155-0
Fields A#7A	3RP-170-0
Fogelson 4-1	3RP-068-0
Gallegos Canyon Unit #124E	3RP-407-0
GCU Com A #142E	3RP-179-0
Hammond #41A	3RP-186-0
James F. Bell #1E	3RP-196-0
Johnston Fed #4	3RP-201-0
Johnston Fed #6A	3RP-202-0
K27 LDO72	3RP-204-0
Knight #1	3RP-207-0
Lateral L 40 Line Drip	3RP-212-0
Lat O-21 Line Drip	3RP-213-0
Lindrith B #24	3RP-214-0
Miles Fed #1A	3RP-223-0
Sandoval GC A #1A	3RP-235-0
Standard Oil Com #1	3RP-238-0
State Gas Com N #1	3RP-239-0

Groundwater sampling and monitoring is planned to be conducted the week of June 5, 2017.

Thank you,
Steve

Stephen Varsa, P.G.
Supervising Hydrogeologist
MWH, now part of Stantec
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523

Office: (515) 253-0830
steve.varsa@stantec.com

From:	Varsa, Steve
To:	Bayliss, Randolph, EMNRD
Cc:	Griswold, Jim, EMNRD; Perrin, Charlie, EMNRD; Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Wiley, Joe
Subject:	RE: MPDE Work Plan Approval - 3RP-239 (State Gas Com N#1)
Date:	Friday, October 06, 2017 7:07:00 PM

Hi Randy –

Pursuant to the July 5, 2017 approval letter for the above-referenced project, this correspondence is to provide notification of planned air sparge test well installation activities, with well drilling to begin on October 30, 2017. Utility clearance activities are to occur on October 16 and 17, 2017. Follow-up correspondence will be provided once the start date of the planned pilot testing activities is finalized.

Please feel free to contact Joe Wiley Joe or me if you have any questions.

Thank you,
Steve

Stephen Varsa, P.G.
Supervising Hydrogeologist
MWH, now part of Stantec
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Bayliss, Randolph, EMNRD [mailto:Randolph.Bayliss@state.nm.us]
Sent: Wednesday, July 05, 2017 9:08 AM
To: Wiley, Joe <Joe_Wiley@kindermorgan.com>; Varsa, Steve <steve.varsa@stantec.com>
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Subject: MPDE Work Plan Approvals

Good morning Joe, Steve, others.

Thank you for your proposed MPDE efforts.

Cheers

Randolph Bayliss, P.E.
Hydrologist, Districts III and IV
NMOCD Environmental Bureau
1220 S St Francis St, Santa Fe, NM 87505
505-476-3084, Cell 575-840-5961

From: Varsa, Steve
To: Bayliss, Randolph, EMNRD
Cc: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Monday, November 06, 2017 11:41:36 AM

Hi Randy –

This correspondence is to provide notice to the NMOCD of upcoming semiannual groundwater sampling and monitoring activities at the following project sites:

Site Name	NMOCD Case #
Canada Mesa #2	3RP-155-0
Fields A#7A	3RP-170-0
Fogelson 4-1	3RP-068-0
Gallegos Canyon Unit #124E	3RP-407-0
GCU Com A #142E	3RP-179-0
James F. Bell #1E	3RP-196-0
Johnston Fed #4	3RP-201-0
Johnston Fed #6A	3RP-202-0
K27 LDO72	3RP-204-0
Knight #1	3RP-207-0
Lateral L 40 Line Drip	3RP-212-0
Lat O-21 Line Drip	3RP-213-0
Miles Fed #1A	3RP-223-0
Sandoval GC A #1A	3RP-235-0
Standard Oil Com #1	3RP-238-0
State Gas Com N #1	3RP-239-0

Groundwater sampling and monitoring is planned to be conducted November 10-14, 2017.

Please contact Joe Wiley, remediation manager with El Paso CGP Company, at (713) 420-3475, or me, if you have any questions.

Thank you,
Steve

Stephen Varsa, P.G.
Supervising Hydrogeologist
MWH, now part of Stantec
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX E

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-139059-1
Client Project/Site: ElPaso CGP Company LLC-State Gas Com N#1
Revision: 1

For:
Stantec Consulting Services Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner

Carol M Webb

Authorized for release by:
6/28/2017 5:41:19 PM

Carol Webb, Project Manager II
(850)471-6250
carol.webb@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-139059-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-139059-1

Comments
No additional comments.

Receipt
The samples were received on 6/9/2017 11:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7º C and 3.1º C.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

Client Sample ID: MW-1 — Lab Sample ID: 400-139059-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	12000		250		ug/L	250		8021B	Total/NA
Ethylbenzene	790		250		ug/L	250		8021B	Total/NA
Toluene	3000		1300		ug/L	250		8021B	Total/NA
Xylenes, Total	6500		1300		ug/L	250		8021B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-139059-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	22000		250		ug/L	250		8021B	Total/NA
Ethylbenzene	1100		250		ug/L	250		8021B	Total/NA
Xylenes, Total	8500		1300		ug/L	250		8021B	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 400-139059-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	26000		250		ug/L	250		8021B	Total/NA
Ethylbenzene	500		250		ug/L	250		8021B	Total/NA
Toluene	16000		1300		ug/L	250		8021B	Total/NA
Xylenes, Total	12000		1300		ug/L	250		8021B	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 400-139059-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	5700		250		ug/L	250		8021B	Total/NA
Ethylbenzene	910		250		ug/L	250		8021B	Total/NA
Toluene	9000		1300		ug/L	250		8021B	Total/NA
Xylenes, Total	7300		1300		ug/L	250		8021B	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 400-139059-5

No Detections.

Client Sample ID: MW-15 — Lab Sample ID: 400-139059-6

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 400-139059-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	26		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	4.3		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	13		5.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 400-139059-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	100		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	43		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	17		5.0		ug/L	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

Client Sample ID: MW-19 — Lab Sample ID: 400-139059-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	9000		50		ug/L	50		8021B	Total/NA
Ethylbenzene	230		50		ug/L	50		8021B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-139059-10

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139059-1	MW-1	Water	06/06/17 14:35	06/09/17 11:11
400-139059-2	MW-3	Water	06/06/17 15:00	06/09/17 11:11
400-139059-3	MW-4	Water	06/06/17 14:50	06/09/17 11:11
400-139059-4	MW-6	Water	06/06/17 13:40	06/09/17 11:11
400-139059-5	MW-9	Water	06/06/17 13:15	06/09/17 11:11
400-139059-6	MW-15	Water	06/06/17 13:25	06/09/17 11:11
400-139059-7	MW-16	Water	06/06/17 13:30	06/09/17 11:11
400-139059-8	MW-18	Water	06/06/17 14:20	06/09/17 11:11
400-139059-9	MW-19	Water	06/06/17 14:30	06/09/17 11:11
400-139059-10	TRIP BLANK	Water	06/06/17 15:10	06/09/17 11:11

Client Sample ID: MW-1
Date Collected: 06/06/17 14:35
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12000		250		ug/L			06/13/17 15:29	250
Ethylbenzene	790		250		ug/L			06/13/17 15:29	250
Toluene	3000		1300		ug/L			06/13/17 15:29	250
Xylenes, Total	6500		1300		ug/L			06/13/17 15:29	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*78 - 124*		*06/13/17 15:29*	*250*

Client Sample ID: MW-3
Date Collected: 06/06/17 15:00
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**22000**		250		ug/L			06/13/17 16:04	250
Ethylbenzene	**1100**		250		ug/L			06/13/17 16:04	250
Toluene	<1300		1300		ug/L			06/13/17 16:04	250
Xylenes, Total	**8500**		1300		ug/L			06/13/17 16:04	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*		*06/13/17 16:04*	*250*

Client Sample ID: MW-4
Date Collected: 06/06/17 14:50
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	26000		250		ug/L			06/13/17 16:40	250
Ethylbenzene	500		250		ug/L			06/13/17 16:40	250
Toluene	16000		1300		ug/L			06/13/17 16:40	250
Xylenes, Total	12000		1300		ug/L			06/13/17 16:40	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*78 - 124*		*06/13/17 16:40*	*250*

Client Sample ID: MW-6
Date Collected: 06/06/17 13:40
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5700		250		ug/L			06/13/17 17:16	250
Ethylbenzene	910		250		ug/L			06/13/17 17:16	250
Toluene	9000		1300		ug/L			06/13/17 17:16	250
Xylenes, Total	7300		1300		ug/L			06/13/17 17:16	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*		*06/13/17 17:16*	*250*

Client Sample ID: MW-9
Date Collected: 06/06/17 13:15
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-5
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/13/17 19:58	1
Ethylbenzene	<1.0		1.0		ug/L			06/13/17 19:58	1
Toluene	<5.0		5.0		ug/L			06/13/17 19:58	1
Xylenes, Total	<5.0		5.0		ug/L			06/13/17 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*108*		*78 - 124*		*06/13/17 19:58*	*1*

Client Sample ID: MW-15
Date Collected: 06/06/17 13:25
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/13/17 19:27	1
Ethylbenzene	<1.0		1.0		ug/L			06/13/17 19:27	1
Toluene	<5.0		5.0		ug/L			06/13/17 19:27	1
Xylenes, Total	<5.0		5.0		ug/L			06/13/17 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*108*		*78 - 124*		*06/13/17 19:27*	*1*

Client Sample ID: MW-16
Date Collected: 06/06/17 13:30
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-7
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**26**		1.0		ug/L			06/14/17 07:10	1
Ethylbenzene	**4.3**		1.0		ug/L			06/14/17 07:10	1
Toluene	<5.0		5.0		ug/L			06/14/17 07:10	1
Xylenes, Total	**13**		5.0		ug/L			06/14/17 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*109*		*78 - 124*		*06/14/17 07:10*	*1*

Client Sample ID: MW-18
Date Collected: 06/06/17 14:20
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-8
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**100**		1.0		ug/L			06/13/17 21:30	1
Ethylbenzene	**43**		1.0		ug/L			06/13/17 21:30	1
Toluene	<5.0		5.0		ug/L			06/13/17 21:30	1
Xylenes, Total	**17**		5.0		ug/L			06/13/17 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*107*		*78 - 124*		*06/13/17 21:30*	*1*

Client Sample ID: MW-19
Date Collected: 06/06/17 14:30
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-9
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9000**		50		ug/L			06/13/17 17:52	50
Ethylbenzene	**230**		50		ug/L			06/13/17 17:52	50
Toluene	<250		250		ug/L			06/13/17 17:52	50
Xylenes, Total	<250		250		ug/L			06/13/17 17:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/13/17 17:52*	*50*

Client Sample ID: TRIP BLANK
Date Collected: 06/06/17 15:10
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-10
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/13/17 22:00	1
Ethylbenzene	<1.0		1.0		ug/L			06/13/17 22:00	1
Toluene	<5.0		5.0		ug/L			06/13/17 22:00	1
Xylenes, Total	<5.0		5.0		ug/L			06/13/17 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*108*		*78 - 124*		*06/13/17 22:00*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

GC VOA

Analysis Batch: 356811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139059-1	MW-1	Total/NA	Water	8021B	
400-139059-2	MW-3	Total/NA	Water	8021B	
400-139059-3	MW-4	Total/NA	Water	8021B	
400-139059-4	MW-6	Total/NA	Water	8021B	
400-139059-9	MW-19	Total/NA	Water	8021B	
MB 400-356811/2	Method Blank	Total/NA	Water	8021B	
LCS 400-356811/1001	Lab Control Sample	Total/NA	Water	8021B	
400-139006-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
400-139006-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 356821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139059-5	MW-9	Total/NA	Water	8021B	
400-139059-6	MW-15	Total/NA	Water	8021B	
400-139059-7	MW-16	Total/NA	Water	8021B	
400-139059-8	MW-18	Total/NA	Water	8021B	
400-139059-10	TRIP BLANK	Total/NA	Water	8021B	
MB 400-356821/4	Method Blank	Total/NA	Water	8021B	
LCS 400-356821/1003	Lab Control Sample	Total/NA	Water	8021B	
400-139059-5 MS	MW-9	Total/NA	Water	8021B	
400-139059-5 MSD	MW-9	Total/NA	Water	8021B	

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-356811/2
Matrix: Water
Analysis Batch: 356811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/13/17 14:52	1
Ethylbenzene	<1.0		1.0		ug/L			06/13/17 14:52	1
Toluene	<5.0		5.0		ug/L			06/13/17 14:52	1
Xylenes, Total	<5.0		5.0		ug/L			06/13/17 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*91*		*78 - 124*		*06/13/17 14:52*	*1*

Lab Sample ID: LCS 400-356811/1001
Matrix: Water
Analysis Batch: 356811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	48.7		ug/L		97	85 - 115		
Ethylbenzene			50.0	50.0		ug/L		100	85 - 115		
Toluene			50.0	50.4		ug/L		101	85 - 115		
Xylenes, Total			150	149		ug/L		100	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*

Lab Sample ID: 400-139006-A-1 MS
Matrix: Water
Analysis Batch: 356811

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	1.7		50.0	58.7		ug/L		114	44 - 150		
Ethylbenzene	<1.0	F2	50.0	56.7		ug/L		113	70 - 142		
Toluene	<5.0		50.0	57.3		ug/L		115	69 - 136		
Xylenes, Total	<5.0	F2	150	167		ug/L		111	68 - 142		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*102*		*78 - 124*

Lab Sample ID: 400-139006-A-1 MSD
Matrix: Water
Analysis Batch: 356811

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	1.7		50.0	56.6		ug/L		110	44 - 150	4	16
Ethylbenzene	<1.0	F2	50.0	46.1	F2	ug/L		92	70 - 142	21	16
Toluene	<5.0		50.0	51.5		ug/L		103	69 - 136	11	16
Xylenes, Total	<5.0	F2	150	136	F2	ug/L		91	68 - 142	20	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 400-356821/4
Matrix: Water
Analysis Batch: 356821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/13/17 18:26	1
Ethylbenzene	<1.0		1.0		ug/L			06/13/17 18:26	1
Toluene	<5.0		5.0		ug/L			06/13/17 18:26	1
Xylenes, Total	<5.0		5.0		ug/L			06/13/17 18:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*108*		*78 - 124*		*06/13/17 18:26*	*1*

Lab Sample ID: LCS 400-356821/1003
Matrix: Water
Analysis Batch: 356821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	46.1		ug/L		92	85 - 115		
Ethylbenzene			50.0	46.5		ug/L		93	85 - 115		
Toluene			50.0	45.4		ug/L		91	85 - 115		
Xylenes, Total			150	141		ug/L		94	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*107*		*78 - 124*

Lab Sample ID: 400-139059-5 MS
Matrix: Water
Analysis Batch: 356821

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	55.4		ug/L		111	44 - 150		
Ethylbenzene	<1.0		50.0	56.5		ug/L		113	70 - 142		
Toluene	<5.0		50.0	55.0		ug/L		110	69 - 136		
Xylenes, Total	<5.0		150	172		ug/L		115	68 - 142		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*107*		*78 - 124*

Lab Sample ID: 400-139059-5 MSD
Matrix: Water
Analysis Batch: 356821

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	57.7		ug/L		115	44 - 150	4	16
Ethylbenzene	<1.0		50.0	58.4		ug/L		117	70 - 142	3	16
Toluene	<5.0		50.0	56.9		ug/L		114	69 - 136	3	16
Xylenes, Total	<5.0		150	178		ug/L		118	68 - 142	3	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*106*		*78 - 124*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

Client Sample ID: MW-1
Date Collected: 06/06/17 14:35
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		250	5 mL	5 mL	356811	06/13/17 15:29	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-3
Date Collected: 06/06/17 15:00
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		250	5 mL	5 mL	356811	06/13/17 16:04	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-4
Date Collected: 06/06/17 14:50
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		250	5 mL	5 mL	356811	06/13/17 16:40	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-6
Date Collected: 06/06/17 13:40
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		250	5 mL	5 mL	356811	06/13/17 17:16	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-9
Date Collected: 06/06/17 13:15
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/13/17 19:58	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: MW-15
Date Collected: 06/06/17 13:25
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/13/17 19:27	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

Client Sample ID: MW-16
Date Collected: 06/06/17 13:30
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/14/17 07:10	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: MW-18
Date Collected: 06/06/17 14:20
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/13/17 21:30	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: MW-19
Date Collected: 06/06/17 14:30
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		50	5 mL	5 mL	356811	06/13/17 17:52	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: TRIP BLANK
Date Collected: 06/06/17 15:10
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139059-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/13/17 22:00	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Laboratory References:
TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
TestAmerica Job ID: 400-139059-1
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company LLC-State Gas Com N#1

TestAmerica Job ID: 400-139059-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sarah Gardner / Justen Gurley	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-65872-26947.1
Client Contact: Ms. Sarah Gardner	Phone: 303 291 2239	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc				Job #:
Address: 1560 Broadway Suite 1800	Due Date Requested:			
City: Denver	TAT Requested (days): Standard			
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			
Email: sarah.gardner@mwhglobal.com	WO #:			
Project Name: State Gas Com N #1	Project #: 40005479			
Site: State Gas Com N #1	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

400-139059 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX 8021	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
mw-1	6/6/17	~~1435~~	G	W					Unpreserved
mw-3	6/6/17	1500	G	W					Unpreserved
mw-4	6/6/17	1450	G	W					Unpreserved
mw-6	6/6/17	1340	G	W					
mw-9	6/6/17	1315	G	W					
mw-15	6/6/17	1325	G	W					
mw-16	6/6/17	1330	G	W					
mw-18	6/6/17	1420	G	W					Unpreserved
mw-19	6/6/17	1430	G	W					
Trip Blank	6/6/17	1510	G	W					

Page 25 of 26

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/8/2017 845	Stantec			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 6-9-17 1111	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1°C, 2.7°C IR2

6/28/2017

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-139059-1

Login Number: 139059
List Number: 1
Creator: Johnson, Jeremy N

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1°C 2.7°C IR2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-145961-1
Client Project/Site: El Paso CGP Company - State Gas Com N#1

For:
Stantec Consulting Services Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner

Madonna Myers

Authorized for release by:
11/20/2017 12:04:16 PM
Madonna Myers, Project Manager II
(615)796-1870
madonna.myers@testamericainc.com

Designee for

Carol Webb, Project Manager II
(850)471-6250
carol.webb@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Job ID: 400-145961-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-145961-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2017 9:01 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Per client instructions, method 8260 was used in place of method 8021.

GC/MS VOA
Method(s) 8260C: One of three surrogate recovery for the following sample was outside control limits: MW-13 (400-145961-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-1 — Lab Sample ID: 400-145961-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	11000		50		ug/L	50		8260C	Total/NA
Toluene	2800		50		ug/L	50		8260C	Total/NA
Ethylbenzene	750		50		ug/L	50		8260C	Total/NA
Xylenes, Total	6400		500		ug/L	50		8260C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-145961-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	14000		100		ug/L	100		8260C	Total/NA
Toluene	310		100		ug/L	100		8260C	Total/NA
Ethylbenzene	800		100		ug/L	100		8260C	Total/NA
Xylenes, Total	7000		1000		ug/L	100		8260C	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 400-145961-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	4500		50		ug/L	50		8260C	Total/NA
Toluene	7800		50		ug/L	50		8260C	Total/NA
Ethylbenzene	750		50		ug/L	50		8260C	Total/NA
Xylenes, Total	6500		500		ug/L	50		8260C	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 400-145961-4

No Detections.

Client Sample ID: MW-13 — Lab Sample ID: 400-145961-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	21		1.0		ug/L	1		8260C	Total/NA
Toluene	1.6		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	12		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 400-145961-6

No Detections.

Client Sample ID: MW-15 — Lab Sample ID: 400-145961-7

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 400-145961-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 400-145961-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	60		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	37		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-19 — Lab Sample ID: 400-145961-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	16		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	17		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-145961-11

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-145961-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	20000		100		ug/L	100		8260C	Total/NA
Toluene	13000		100		ug/L	100		8260C	Total/NA
Ethylbenzene	630		100		ug/L	100		8260C	Total/NA
Xylenes, Total	9200		1000		ug/L	100		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-145961-1	MW-1	Water	11/10/17 11:55	11/14/17 09:01
400-145961-2	MW-3	Water	11/10/17 12:05	11/14/17 09:01
400-145961-3	MW-6	Water	11/10/17 11:23	11/14/17 09:01
400-145961-4	MW-9	Water	11/10/17 09:34	11/14/17 09:01
400-145961-5	MW-13	Water	11/10/17 10:07	11/14/17 09:01
400-145961-6	MW-14	Water	11/10/17 09:43	11/14/17 09:01
400-145961-7	MW-15	Water	11/10/17 09:55	11/14/17 09:01
400-145961-8	MW-16	Water	11/10/17 10:55	11/14/17 09:01
400-145961-9	MW-18	Water	11/10/17 11:46	11/14/17 09:01
400-145961-10	MW-19	Water	11/10/17 11:34	11/14/17 09:01
400-145961-11	TRIP BLANK	Water	11/10/17 09:00	11/14/17 09:01
400-145961-12	MW-4	Water	11/10/17 12:12	11/14/17 09:01

Client Sample ID: MW-1
Date Collected: 11/10/17 11:55
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11000		50		ug/L			11/16/17 19:50	50
Toluene	2800		50		ug/L			11/16/17 19:50	50
Ethylbenzene	750		50		ug/L			11/16/17 19:50	50
Xylenes, Total	6400		500		ug/L			11/16/17 19:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*81 - 121*		*11/16/17 19:50*	*50*
4-Bromofluorobenzene	*114*		*78 - 118*		*11/16/17 19:50*	*50*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/16/17 19:50*	*50*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-3
Date Collected: 11/10/17 12:05
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14000		100		ug/L			11/16/17 20:34	100
Toluene	310		100		ug/L			11/16/17 20:34	100
Ethylbenzene	800		100		ug/L			11/16/17 20:34	100
Xylenes, Total	7000		1000		ug/L			11/16/17 20:34	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*81 - 121*		*11/16/17 20:34*	*100*
4-Bromofluorobenzene	*112*		*78 - 118*		*11/16/17 20:34*	*100*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/16/17 20:34*	*100*

Client Sample ID: MW-6
Date Collected: 11/10/17 11:23
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4500		50		ug/L			11/16/17 20:12	50
Toluene	7800		50		ug/L			11/16/17 20:12	50
Ethylbenzene	750		50		ug/L			11/16/17 20:12	50
Xylenes, Total	6500		500		ug/L			11/16/17 20:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*81 - 121*		*11/16/17 20:12*	*50*
4-Bromofluorobenzene	*116*		*78 - 118*		*11/16/17 20:12*	*50*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/16/17 20:12*	*50*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-9
Date Collected: 11/10/17 09:34
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/17 15:25	1
Toluene	<1.0		1.0		ug/L			11/16/17 15:25	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/17 15:25	1
Xylenes, Total	<10		10		ug/L			11/16/17 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*81 - 121*		*11/16/17 15:25*	*1*
4-Bromofluorobenzene	*114*		*78 - 118*		*11/16/17 15:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/16/17 15:25*	*1*

Client Sample ID: MW-13
Date Collected: 11/10/17 10:07
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**21**		1.0		ug/L			11/16/17 15:47	1
Toluene	**1.6**		1.0		ug/L			11/16/17 15:47	1
Ethylbenzene	**12**		1.0		ug/L			11/16/17 15:47	1
Xylenes, Total	<10		10		ug/L			11/16/17 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*81 - 121*		*11/16/17 15:47*	*1*
4-Bromofluorobenzene	*119*	*X*	*78 - 118*		*11/16/17 15:47*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/16/17 15:47*	*1*

Client Sample ID: MW-14
Date Collected: 11/10/17 09:43
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/17 13:34	1
Toluene	<1.0		1.0		ug/L			11/16/17 13:34	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/17 13:34	1
Xylenes, Total	<10		10		ug/L			11/16/17 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*81 - 121*		*11/16/17 13:34*	*1*
4-Bromofluorobenzene	*115*		*78 - 118*		*11/16/17 13:34*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/16/17 13:34*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-15
Date Collected: 11/10/17 09:55
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/17 16:09	1
Toluene	<1.0		1.0		ug/L			11/16/17 16:09	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/17 16:09	1
Xylenes, Total	<10		10		ug/L			11/16/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*104*		*81 - 121*		*11/16/17 16:09*	*1*
4-Bromofluorobenzene	*116*		*78 - 118*		*11/16/17 16:09*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/16/17 16:09*	*1*

Client Sample ID: MW-16
Date Collected: 11/10/17 10:55
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11**		1.0		ug/L			11/16/17 16:31	1
Toluene	<1.0		1.0		ug/L			11/16/17 16:31	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/17 16:31	1
Xylenes, Total	<10		10		ug/L			11/16/17 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*81 - 121*		*11/16/17 16:31*	*1*
4-Bromofluorobenzene	*112*		*78 - 118*		*11/16/17 16:31*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/16/17 16:31*	*1*

Client Sample ID: MW-18
Date Collected: 11/10/17 11:46
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**60**		1.0		ug/L			11/16/17 16:53	1
Toluene	<1.0		1.0		ug/L			11/16/17 16:53	1
Ethylbenzene	**37**		1.0		ug/L			11/16/17 16:53	1
Xylenes, Total	<10		10		ug/L			11/16/17 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*81 - 121*		*11/16/17 16:53*	*1*
4-Bromofluorobenzene	*115*		*78 - 118*		*11/16/17 16:53*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/16/17 16:53*	*1*

Client Sample ID: MW-19
Date Collected: 11/10/17 11:34
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**16**		1.0		ug/L			11/16/17 17:15	1
Toluene	<1.0		1.0		ug/L			11/16/17 17:15	1
Ethylbenzene	**17**		1.0		ug/L			11/16/17 17:15	1
Xylenes, Total	<10		10		ug/L			11/16/17 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*81 - 121*		*11/16/17 17:15*	*1*
4-Bromofluorobenzene	*114*		*78 - 118*		*11/16/17 17:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/16/17 17:15*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: TRIP BLANK
Date Collected: 11/10/17 09:00
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/17 15:02	1
Toluene	<1.0		1.0		ug/L			11/16/17 15:02	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/17 15:02	1
Xylenes, Total	<10		10		ug/L			11/16/17 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*104*		*81 - 121*		*11/16/17 15:02*	*1*
4-Bromofluorobenzene	*113*		*78 - 118*		*11/16/17 15:02*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/16/17 15:02*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-4
Date Collected: 11/10/17 12:12
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20000		100		ug/L			11/16/17 20:56	100
Toluene	13000		100		ug/L			11/16/17 20:56	100
Ethylbenzene	630		100		ug/L			11/16/17 20:56	100
Xylenes, Total	9200		1000		ug/L			11/16/17 20:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*81 - 121*		*11/16/17 20:56*	*100*
4-Bromofluorobenzene	*115*		*78 - 118*		*11/16/17 20:56*	*100*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/16/17 20:56*	*100*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

GC/MS VOA

Analysis Batch: 376215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145961-1	MW-1	Total/NA	Water	8260C	
400-145961-2	MW-3	Total/NA	Water	8260C	
400-145961-3	MW-6	Total/NA	Water	8260C	
400-145961-4	MW-9	Total/NA	Water	8260C	
400-145961-5	MW-13	Total/NA	Water	8260C	
400-145961-6	MW-14	Total/NA	Water	8260C	
400-145961-7	MW-15	Total/NA	Water	8260C	
400-145961-8	MW-16	Total/NA	Water	8260C	
400-145961-9	MW-18	Total/NA	Water	8260C	
400-145961-10	MW-19	Total/NA	Water	8260C	
400-145961-11	TRIP BLANK	Total/NA	Water	8260C	
400-145961-12	MW-4	Total/NA	Water	8260C	
MB 400-376215/27	Method Blank	Total/NA	Water	8260C	
LCS 400-376215/1002	Lab Control Sample	Total/NA	Water	8260C	
400-145961-6 MS	MW-14	Total/NA	Water	8260C	
400-145961-6 MSD	MW-14	Total/NA	Water	8260C	

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 400-376215/27
Matrix: Water
Analysis Batch: 376215

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/17 13:12	1
Toluene	<1.0		1.0		ug/L			11/16/17 13:12	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/17 13:12	1
Xylenes, Total	<10		10		ug/L			11/16/17 13:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*81 - 121*		*11/16/17 13:12*	*1*
4-Bromofluorobenzene	*115*		*78 - 118*		*11/16/17 13:12*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/16/17 13:12*	*1*

Lab Sample ID: LCS 400-376215/1002
Matrix: Water
Analysis Batch: 376215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	50.3		ug/L		101	70 - 130		
Toluene			50.0	54.0		ug/L		108	70 - 130		
Ethylbenzene			50.0	56.2		ug/L		112	70 - 130		
Xylenes, Total			100	112		ug/L		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*104*		*81 - 121*
4-Bromofluorobenzene	*117*		*78 - 118*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 400-145961-6 MS
Matrix: Water
Analysis Batch: 376215

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	40.4		ug/L		81	56 - 142		
Toluene	<1.0		50.0	40.6		ug/L		81	65 - 130		
Ethylbenzene	<1.0		50.0	41.8		ug/L		84	58 - 131		
Xylenes, Total	<10		100	83.4		ug/L		83	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane	*111*		*81 - 121*
4-Bromofluorobenzene	*113*		*78 - 118*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-145961-6 MSD
Matrix: Water
Analysis Batch: 376215

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	38.6		ug/L		77	56 - 142	5	30
Toluene	<1.0		50.0	39.9		ug/L		80	65 - 130	2	30

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-145961-6 MSD
Matrix: Water
Analysis Batch: 376215

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<1.0		50.0	40.6		ug/L		81	58 - 131	3	30
Xylenes, Total	<10		100	80.9		ug/L		81	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane	*103*		*81 - 121*
4-Bromofluorobenzene	*118*		*78 - 118*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-1
Date Collected: 11/10/17 11:55
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	5 mL	5 mL	376215	11/16/17 19:50	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-3
Date Collected: 11/10/17 12:05
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	5 mL	5 mL	376215	11/16/17 20:34	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-6
Date Collected: 11/10/17 11:23
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	5 mL	5 mL	376215	11/16/17 20:12	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-9
Date Collected: 11/10/17 09:34
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 15:25	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-13
Date Collected: 11/10/17 10:07
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 15:47	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-14
Date Collected: 11/10/17 09:43
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 13:34	S1K	TAL PEN
	Instrument ID: Darwin									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Client Sample ID: MW-15
Date Collected: 11/10/17 09:55
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 16:09	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-16
Date Collected: 11/10/17 10:55
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 16:31	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-18
Date Collected: 11/10/17 11:46
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 16:53	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-19
Date Collected: 11/10/17 11:34
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 17:15	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: TRIP BLANK
Date Collected: 11/10/17 09:00
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376215	11/16/17 15:02	S1K	TAL PEN
	Instrument ID: Darwin									

Client Sample ID: MW-4
Date Collected: 11/10/17 12:12
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145961-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	5 mL	5 mL	376215	11/16/17 20:56	S1K	TAL PEN
	Instrument ID: Darwin									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
TestAmerica Job ID: 400-145961-1
Project/Site: El Paso CGP Company - State Gas Com N#1

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	12-31-17
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - State Gas Com N#1

TestAmerica Job ID: 400-145961-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: SMS	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-69068-28002.1
Client Contact: Ms. Sarah Gardner	Phone: 515-306-1353	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 2
Company: Stantec Consulting Services Inc		Analysis Requested		Job #: 203720251
Address: 1560 Broadway Suite 1800	Due Date Requested:			Preservation Codes:
City: Denver	TAT Requested (days): 10 day Std			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			
Email: sarah.gardner@mwhglobal.com	WO#: ARF W-ERG-STN-05-17-17-SLG-18			
Project Name: State Gas Com N #1 Nov 2017	Project #: 40005479 State Gas Com N1			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8021B - BTEX 8021	Special Instructions/Note:
MW-1	11/10/17	1155	G	W	A 2	Per ARF
MW-3		1205			A 2	
MW-6		1123			A 2	
MW-9		934			A 2	
MW-13		1007			A 2	
MW-14		943			A 2	
MW-15		955			A 2	
MW-16		1055			A 2	
MW-18		1146			A 2	
MW-19		1134			A 2	
Trip Blank	11/10/17	900			A 2	

00-145961 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/13/17 1100	Stantec		11.14.17 0901	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.0C IR7 NH

Ver: 08/04/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: SMS	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-69068-28002.2
Client Contact: Ms. Sarah Gardner	Phone: 515-306-1353	E-Mail: carol.webb@testamericainc.com		Page: Page 2 of 2
Company: Stantec Consulting Services Inc				Job #:
Address: 1560 Broadway Suite 1800	Due Date Requested:			
City: Denver	TAT Requested (days):			
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			
Email: sarah.gardner@mwhglobal.com	WO #:			
Project Name: State Gas Com N #1 Nov 2017	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8021B - BTEX 8021	Special Instructions/Note:
MW-4	11/10/17	1212	G	W	A 2	Per ARF

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	11/13/17 1100		[signature]	11.14.17 0901	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0C IR1 NH

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-145961-1

Login Number: 145961
List Number: 1
Creator: Johnson, Jeremy N

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	