2017 ANNUAL GROUNDWATER REPORT

Fogelson 4-1
NMOCD Case#: 3RP-068-0
Meter Code: 73220
T29N, R11W, Sec 4, Unit P

SITE DETAILS

Site Location: Latitude: 36.750660 N, Longitude: -107.991560 W
Land Type: Federal
Former Operator: Burlington Resources (well P&A'd)

SITE BACKGROUND

Environmental Remediation activities at the Fogelson 4-1 (Site) are being managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (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 (EPCGP's) program methods. The Site was operated by Burlington Resources Oil & Gas Company LP (BR) until January 2014, and the final reclamation was completed by BR in 2016.

The Site is located on Federal land. An initial site assessment was completed in March 1994, and an excavation of 65 cubic yards (cy), to a depth of approximately 11 feet below ground surface (bgs), was completed in April 1994. Various site investigations have occurred since 1994. Monitoring wells were installed in 1995 (MW-1, MW-2, and MW-3). In August of 2001 a nutrient injection of an Oxygen Release Compound was completed. Free product has been periodically observed and removed. Currently groundwater sampling is conducted on a semi-annual basis.

MONITORING WELL INSTALLATION ACTIVITIES

In April 2017, new monitoring well locations were staked and surveyed for permitting and utility locating purposes. The monitoring well advancement and installation activities were completed in accordance with the Monitoring Well Installation Work Plan, submitted on March 15, 2017. NMOCD was notified of start of the monitoring well installation activities on March 15, 2018.

Four new wells (MW-4, MW-5, MW-6 and MW-7) were completed in 2017, to further characterize the extent of the dissolved-phase hydrocarbons at the Site. Soil boring SB-1 was also advanced in the vicinity of the former pit to evaluate soil concentrations at the location. Ground surface and casing elevations of the new monitoring wells were surveyed in April 2017 by a licensed surveyor using state plane coordinates.

Monitoring wells were constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. Well screen was installed from 30 feet below ground surface (bgs) to 55 feet bgs and bisects the field-observed water table. A 3-foot seal of bentonite chip seal was placed above the sand pack and hydrated, and the remaining annular space filled with bentonite grout. The

monitoring wells were completed as stick-up wells with locking protective casings and a concrete pad. Four protective bollards were installed around each new monitoring well. Borehole logs and well construction diagrams are provided in Appendix A.

During advancement of each monitoring well and soil boring, the soil sample interval exhibiting the highest photoionization detector (PID) reading above-the field-interpreted water table was retained and placed in a 4-ounce jar for laboratory analysis. Additional soil samples were retained at the SB-1 locations to quantify petroleum hydrocarbon concentrations at additional intervals. The retained sample jars were stored in an ice-filled cooler and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida (TestAmerica). The 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), gasoline range organics, diesel range organics, and mineral range organics using EPA Method 8015B; and chloride according to EPA Method 300. The soil sample analytical report is provided in Appendix B.

Monitoring well development was performed using a well swab and down-hole pump until visibly clear groundwater was observed. Development and decontamination water was containerized and transported to Basin Disposal, Inc. in Bloomfield, NM for disposal. Soil drums were staged on site for later disposal at Envirotech, Inc. (Envirotech), located south of Bloomfield, NM. Disposal documentation is contained in Appendix C.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to the NMOCD 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. On June 10 and November 13, 2017, water levels were gauged at MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7. Groundwater samples were collected from each well that did not contain free product using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event or after new well installation and development. HydraSleeves were suspended 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 benzene, toluene, ethylbenzene, and total xylenes (BTEX). As requested by the NMOCD on November 13, 2018, BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260 during the November sampling event. The unused sample water is combined in a waste container and taken to Basin Disposal, Inc. for disposal. Waste

disposal documentation is included as Appendix C.

FREE PRODUCT

Free product was observed in monitoring well MW-1 during both semi-annual sampling events. In June 2017, 0.05 feet of product was observed and 10 milliliters (mL) were recovered. In November 2017, 0.01 feet of product was observed and a trace amount was recovered. The recovered free product was disposed with wastewater generated during monitoring well sampling activities.

SUMMARY TABLES

Historic analytical and water level data are summarized in Table 1 and Table 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 analytical results are summarized in Table 3.

SITE MAPS

Groundwater analytical maps (Figures 1 and 3) and groundwater elevation contour maps (Figures 2 and 4) summarize results of the 2017 groundwater sampling and gauging events. Soil analytical results are shown on Figure 5.

ANALYTICAL LAB REPORTS

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

GROUNDWATER RESULTS

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

- Free product was observed in MW-1 in the 2017 sampling events. Therefore, no groundwater samples from MW-1 were collected.

- The groundwater samples collected in June 2017 and November 2017 at MW-5 and MW-7 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Benzene was either below the NMWQCC standard (10 µg/L) or not detected in monitoring wells MW-2, MW-3, MW-4, and MW-6.

- No detectable toluene concentrations were reported for groundwater samples collected in 2017 from site monitoring wells.

- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in all of the Site monitoring wells sampled in 2017.

- Concentrations of total xylenes were either below the NMWQCC standard (620 µg/L) or not detected in all of the Site monitoring wells sampled in 2017

SOIL RESULTS

- Soil samples were collected from the borings for monitoring wells MW-4, MW-5, MW-6, and MW-7 and from soil boring SB-1. Concentrations of benzene, toluene, ethylbenzene, and total xylenes, were either not detected or detected below the applicable limits in the New Mexico Oil Conservation Division (NMOCD) 2013 Pit Rule Guidance for soil samples submitted in 2017.

- For total BTEX, reported concentrations were below the applicable limit in the NMOCD 2013 Pit Rule Guidance (50 milligrams per kilogram (mg/kg)) for MW-4 through MW-7, and above the limit for all three samples from SB-1.

- Concentrations of TPH were detected at a concentration below the NMOCD 2013 Pit Rule Guidance (100 mg/kg) in the sample collected from MW-6, and above the limit in samples collected from MW-4, MW-5, MW-7, and all three of the SB-1 samples.

- Concentrations of chloride were not detected in any of the soil samples submitted for laboratory analysis.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will continue to be conducted on a semi-annual basis. Groundwater samples will be collected from monitoring wells not containing free product and analyzed for BTEX constituents using EPA Method 8260.

Two additional monitoring wells are planned for installation in 2018 to define the extent of hydrocarbons in groundwater to the southeast and northwest. A work plan to complete the monitoring well installation activities will be submitted under separate cover for NMOCD approval.

The recovery of measurable free product will be enhanced by the completion of one or more mobile dual-phase extraction (MDPE) events in 2018. A work plan to complete the MDPE activities will be submitted under separate cover for NMOCD approval.

The activities completed in 2018 and their results will be summarized in the 2018 Annual Report, completed for submittal in early 2019.

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TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Fogelson 4-1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/06/95	1520	1050	907	9180
MW-1	12/06/96	1110	388	713	7730
MW-1	03/10/97	1240	318	850	9050
MW-1	06/06/97	1080	268	747	7700
MW-1	03/30/98	1070	522	789	8430
MW-1	06/04/98	1090	627	837	8880
MW-1	06/15/99	1000	550	770	7800
MW-1	06/19/00	790	280	1100	9300
MW-1	10/02/00	580	600	950	8000
MW-1	12/05/00	420	610	770	6000
MW-1	05/30/01	340	470	710	4800
MW-1	11/26/01	420	330	760	3400
MW-1	05/15/02	430	230	900	6000
MW-1	11/04/02	625	370	862	5210
MW-1	05/21/03	339	296	723	4730
MW-1	11/15/03	401	308	755	4700
MW-1	11/16/04	185	59.9	550	2800
MW-1	11/08/05	174	34.3	675	2440
MW-1	11/08/06	206	41.6	694	2460
MW-1	11/03/09	230	24.2 J	901	3290
MW-1	11/09/10	198	23.5	840	3170
MW-1	11/16/11	171	3.8 J	818	2770
MW-1	06/04/13	20	9.3 J	650	2400
MW-1	09/09/13	160	20	760	3200
MW-1	12/13/13	150	41	630	2700
MW-1	04/05/14	4.3	<0.38	20	76
MW-1	10/21/14	200	11	770	3600
MW-1	05/30/15	160	38	810	3700

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Fogelson 4-1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	07/27/00	<0.5	<0.5	8.8	<0.5
MW-2	05/30/01	<0.5	<0.5	7.5	1
MW-2	05/15/02	<0.5	<0.5	2	<1
MW-2	11/09/10	<2	<2	<2	<6
MW-2	11/16/11	<1	<1	<1	<3
MW-2	06/04/13	<0.14	<0.30	<0.20	<0.23
MW-2	09/09/13	<0.14	<0.30	<0.20	<0.23
MW-2	12/13/13	<0.20	0.52 J	0.38 J	0.85 J
MW-2	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-2	10/21/14	<0.38	<0.70	<0.50	<1.6
MW-2	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-2	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-2	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-2	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-2	11/13/17	<1.0	<1.0	<1.0	<10
MW-3	07/27/00	27	35	170	520
MW-3	05/30/01	1.3	<0.5	40	2.8
MW-3	05/15/02	0.64	<0.5	17	1.2
MW-3	05/21/03	<1	<1	18.2	<3
MW-3	11/09/10	<2	<2	1.9 J	<6
MW-3	11/16/11	<1	<1	0.77 J	<3
MW-3	06/04/13	<0.14	<0.30	<0.20	<0.23
MW-3	09/09/13	<0.14	<0.30	<0.20	<0.23
MW-3	12/13/13	<0.20	0.56 J	<0.20	<0.65
MW-3	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-3	10/21/14	<0.38	<0.70	0.96 J	<1.6
MW-3	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-3	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-3	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-3	11/13/17	<1.0	<1.0	<1.0	<10
MW-4	06/10/17	2.8	<5.0	76	<5.0
MW-4	11/13/17	2.6	<1.0	60	<10
MW-5	06/10/17	24	<10	2.4	120
MW-5	11/13/17	24	<2.0	210	<20

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Fogelson 4-1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-6	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-6	11/13/17	<1.0	<1.0	<1.0	<10
MW-7	06/10/17	130	<10	150	580
MW-7	11/13/17	83	<1.0	110	96

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

Fogelson 4-1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/06/95	5784.77	39.99	NR		5744.78
MW-1	12/06/96	5784.77	40.74	NR		5744.03
MW-1	03/10/97	5784.77	41.23	NR		5743.54
MW-1	06/06/97	5784.77	41.44	NR		5743.33
MW-1	03/30/98	5784.77	41.08	NR		5743.69
MW-1	06/04/98	5784.77	41.02	NR		5743.75
MW-1	06/15/99	5784.77	41.88	NR		5742.89
MW-1	06/19/00	5784.77	40.17	NR		5744.60
MW-1	10/02/00	5784.77	40.22	NR		5744.55
MW-1	12/05/00	5784.77	40.09	NR		5744.68
MW-1	05/30/01	5784.77	40.54	NR		5744.23
MW-1	11/26/01	5784.77	41.00	NR		5743.77
MW-1	05/15/02	5784.77	41.37	NR		5743.40
MW-1	06/10/02	5784.77	41.54	NR		5743.23
MW-1	11/04/02	5784.77	41.90	NR		5742.88
MW-1	05/21/03	5784.77	41.57	ND		5743.20
MW-1	11/15/03	5784.77	41.00	ND		5743.77
MW-1	11/16/04	5784.77	40.10	ND		5744.67
MW-1	11/08/05	5784.77	40.68	ND		5744.09
MW-1	11/08/06	5784.77	42.16	ND		5742.61
MW-1	11/29/07	5784.77	42.16	ND		5742.61
MW-1	01/25/08	5784.77	43.10	43.00	0.10	5741.75
MW-1	08/12/08	5784.77	43.14	ND		5741.63
MW-1	11/07/08	5784.77	43.32	43.24	0.08	5741.51
MW-1	02/06/09	5784.77	43.12	ND		5741.65
MW-1	05/04/09	5784.77	43.22	ND		5741.55
MW-1	08/26/09	5784.77	43.53	43.46	0.07	5741.29
MW-1	11/03/09	5784.77	43.52	ND		5741.25
MW-1	02/11/10	5784.77	43.64	ND		5741.13
MW-1	05/25/10	5784.77	43.75	ND		5741.02
MW-1	09/24/10	5784.77	43.95	ND		5740.82
MW-1	11/09/10	5784.77	43.89	43.88	0.01	5740.89
MW-1	02/01/11	5784.77	44.03	ND		5740.74
MW-1	05/03/11	5784.77	44.14	ND		5740.63
MW-1	09/27/11	5784.77	44.30	ND		5740.47
MW-1	11/16/11	5784.77	44.33	ND		5740.44
MW-1	02/16/12	5784.77	44.43	ND		5740.34
MW-1	05/07/12	5784.77	44.50	ND		5740.27
MW-1	06/04/13	5784.77	44.75	ND		5740.02
MW-1	09/09/13	5784.77	44.87	ND		5739.90

TABLE-2 GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-1	12/13/13	5784.77	44.85	ND		5739.92
MW-1	04/05/14	5784.77	44.75	ND		5740.02
MW-1	10/21/14	5784.77	44.86	ND		5739.91
MW-1	05/30/15	5784.77	44.81	ND		5739.96
MW-1	11/18/15	5784.77	44.91	44.91	0.00	5739.86
MW-1	04/16/16	5784.77	45.05	45.00	0.05	5739.76
MW-1	10/14/16	5784.77	45.12	45.12	0.00	5739.65
MW-1	06/10/17	5784.77	45.30	45.25	0.05	5739.51
MW-1	11/13/17	5784.77	45.43	45.42	0.01	5739.35

TABLE-2 GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	07/27/00	5780.03	38.25	NR		5741.78
MW-2	05/30/01	5780.03	38.17	NR		5741.86
MW-2	05/15/02	5780.03	38.56	NR		5741.47
MW-2	11/04/02	5780.03	38.99	NR		5741.05
MW-2	05/21/03	5780.03	39.24	ND		5740.79
MW-2	11/15/03	5780.03	38.70	ND		5741.34
MW-2	11/16/04	5780.03	37.40	ND		5742.63
MW-2	11/08/05	5780.03	37.76	ND		5742.27
MW-2	11/08/06	5780.03	38.65	ND		5741.38
MW-2	11/29/07	5780.03	39.67	ND		5740.36
MW-2	08/12/08	5780.03	39.75	ND		5740.28
MW-2	11/07/08	5780.03	39.97	ND		5740.06
MW-2	02/06/09	5780.03	39.73	ND		5740.30
MW-2	05/04/09	5780.03	39.83	ND		5740.20
MW-2	08/26/09	5780.03	40.19	ND		5739.84
MW-2	11/03/09	5780.03	40.32	ND		5739.71
MW-2	02/11/10	5780.03	40.17	ND		5739.86
MW-2	05/25/10	5780.03	40.40	ND		5739.63
MW-2	09/24/10	5780.03	40.74	ND		5739.29
MW-2	11/09/10	5780.03	40.35	ND		5739.68
MW-2	02/01/11	5780.03	40.39	ND		5739.64
MW-2	05/03/11	5780.03	40.96	ND		5739.07
MW-2	09/27/11	5780.03	41.05	ND		5738.98
MW-2	11/16/11	5780.03	41.07	ND		5738.96
MW-2	02/16/12	5780.03	41.15	ND		5738.88
MW-2	05/07/12	5780.03	41.15	ND		5738.88
MW-2	06/04/13	5780.03	41.54	ND		5738.49
MW-2	09/09/13	5780.03	41.64	ND		5738.39
MW-2	12/13/13	5780.03	41.66	ND		5738.37
MW-2	04/05/14	5780.03	41.64	ND		5738.39
MW-2	10/21/14	5780.03	41.93	ND		5738.10
MW-2	05/30/15	5780.03	42.10	ND		5737.93
MW-2	11/18/15	5780.03	42.03	ND		5738.00
MW-2	04/16/16	5780.03	42.01	ND		5738.02
MW-2	10/14/16	5780.03	42.38	ND		5737.65
MW-2	06/10/17	5780.03	42.08	ND		5737.95
MW-2	11/13/17	5780.03	42.24	ND		5737.79

TABLE-2 GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	07/27/00	5780.83	41.21	NR		5739.62
MW-3	05/30/01	5780.83	40.77	NR		5740.06
MW-3	05/15/02	5780.83	41.14	NR		5739.69
MW-3	11/04/02	5780.83	41.48	NR		5739.35
MW-3	05/21/03	5780.83	41.71	ND		5739.12
MW-3	11/15/03	5780.83	41.30	ND		5739.53
MW-3	11/16/04	5780.83	40.10	ND		5740.73
MW-3	11/08/05	5780.83	40.71	ND		5740.12
MW-3	11/08/06	5780.83	41.47	ND		5739.36
MW-3	11/29/07	5780.83	43.10	43.01	0.09	5737.80
MW-3	08/12/08	5780.83	42.47	ND		5738.36
MW-3	11/07/08	5780.83	42.69	ND		5738.14
MW-3	02/06/09	5780.83	42.47	ND		5738.36
MW-3	05/04/09	5780.83	42.50	ND		5738.33
MW-3	08/26/09	5780.83	42.90	ND		5737.93
MW-3	11/03/09	5780.83	43.03	ND		5737.80
MW-3	02/11/10	5780.83	42.79	ND		5738.04
MW-3	05/25/10	5780.83	42.97	ND		5737.86
MW-3	09/24/10	5780.83	43.25	ND		5737.58
MW-3	11/09/10	5780.83	42.97	ND		5737.86
MW-3	02/01/11	5780.83	42.82	ND		5738.01
MW-3	05/03/11	5780.83	43.41	ND		5737.42
MW-3	09/27/11	5780.83	43.40	ND		5737.43
MW-3	11/16/11	5780.83	43.36	ND		5737.47
MW-3	02/16/12	5780.83	43.41	ND		5737.42
MW-3	05/07/12	5780.83	43.46	ND		5737.37
MW-3	06/04/13	5780.83	43.82	ND		5737.01
MW-3	09/09/13	5780.83	43.93	ND		5736.90
MW-3	12/13/13	5780.83	43.93	ND		5736.90
MW-3	04/05/14	5780.83	43.88	ND		5736.95
MW-3	10/21/14	5780.83	44.16	ND		5736.67
MW-3	05/30/15	5780.83	44.31	ND		5736.52
MW-3	11/18/15	5780.83	44.18	ND		5736.65
MW-3	04/16/16	5780.83	44.10	ND		5736.73
MW-3	10/14/16	5780.83	44.58	ND		5736.25
MW-3	06/10/17	5780.83	44.25	ND		5736.58
MW-3	11/13/17	5780.83	44.44	ND		5736.39

TABLE-2 GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-4	06/10/17	5782.14	46.36	ND		5735.78
MW-4	11/13/17	5782.14	46.49	ND		5735.65
MW-5	06/10/17	5780.92	44.21	ND		5736.71
MW-5	11/13/17	5780.92	44.49	ND		5736.43
MW-6	06/10/17	5783.82	47.78	ND		5736.04
MW-6	11/13/17	5783.82	48.03	ND		5735.79
MW-7	06/10/17	5783.95	43.89	ND		5740.06
MW-7	11/13/17	5783.95	44.09	ND		5739.86

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

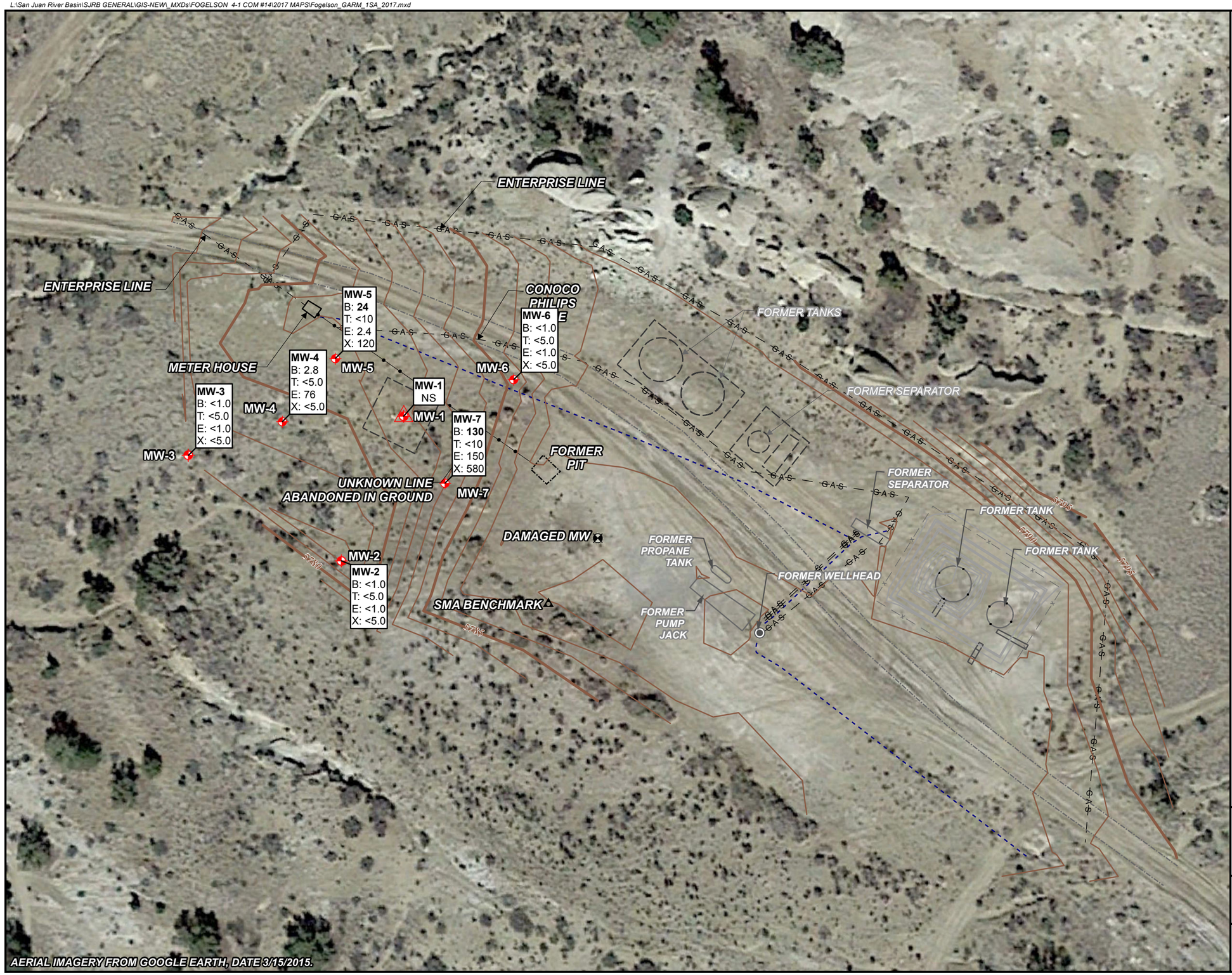
Fogelson 4-1 Com #14 Soil Results											
Location (depth in feet bgs)	**Date (mm/dd/yy)**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethylbenzene (mg/kg)**	**Total Xylenes (mg/kg)**	**BTEX Total (mg/kg)**	**GRO C6-10 (mg/kg)**	**DRO C10-28 (mg/kg)**	**MRO C28-35 (mg/kg)**	**TPH (mg/kg)**	**Chloride (mg/kg)**
	NMOCD Criteria:	10	NE	NE	NE	50	NE	NE	NE	100	600
MW-4 (39-40)	04/07/17	BRL	3.1	1.6	1.2	5.9	200	130	BRL	**330**	BRL
MW-5 (42-43)	04/08/17	BRL	3.8	2.8	12	18.6	540	250	BRL	**790**	BRL
MW-6 (19-20)	04/08/17	BRL	BRL	0.087	0.35	0.44	40	43	BRL	83	BRL
MW-7 (38-39)	04/08/17	BRL	5.3	3.7	26	35	780	270	BRL	**1050**	BRL
SB-1 (19-20)	04/09/17	BRL	12	4.0	150	**166**	5700	3300	11	**9011**	BRL
SB-1 (29-30)	04/09/17	BRL	8.0	1.4	68	**77**	1300	600	BRL	**1900**	BRL
SB-1 (38-39)	04/09/17	BRL	9.0	3.1	55	**67**	620	110	BRL	**730**	BRL

Notes:

mg/kg	Milligrams per kilogram
BRL	Below Reporting Limits
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 the detectable concentrations of GRO, DRO, and MRO and rounded to the nearest mg/kg.
NMOCD Criteria	New Mexico Oil Conservation Division closure criteria for groundwater≤50 feet below bottom of pit to groundwater less than 10,000 mg/L TDS
	Results bolded and highlighted yellow exceed their respective NMOCD Standards

FIGURES

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\FOGELSON 4-1 COM #14\2017 MAPS\Fogelson_GARM_1SA_2017.mxd



LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER EPC PIT
- GAS — GAS LINE
- UNDERGROUND CABLE
- DAMAGED MONITORING WELL (NOT EPCGP-OWNED)
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- FORMER WELLHEAD
- SMA BENCHMARK

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 = BELOW METHOD DETECTION 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 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/7/2017	SLG	SLG	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
JUNE 10, 2017

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 1

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\FOGELSON 4-1 COM #14\2017 MAPS\Fogelson_GECM_1SA_2017.mxd

ENTERPRISE LINE

ENTERPRISE LINE

METER HOUSE

CONOCO PHILIPS LINE

MW-5 5736.71

MW-5

MW-6 5736.04

MW-6

MW-4 5735.78

MW-4

MW-1 5739.51

MW-1

MW-7 5740.06

MW-7

MW-3 5736.58

MW-3

MW-2 5737.95

MW-2

5736

5737

5738

5739

5740

FORMER PIT

FORMER TANKS

FORMER SEPARATOR

FORMER SEPARATOR

FORMER TANK

FORMER TANK

DAMAGED MW

FORMER PROPANE TANK

FORMER WELLHEAD

SMA BENCHMARK

FORMER PUMP JACK

5705

5710

5715

AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/15/2015.

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER EPC PIT
- GAS — GAS LINE
- UNDERGROUND CABLE
- DAMAGED MONITORING WELL (NOT EPCGP-OWNED)
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- FORMER WELLHEAD
- SMA BENCHMARK

NOTES:

5739.86 GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS. FEET ABOVE MEAN SEA LEVEL

5739.8 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/12/2017	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
JUNE 10, 2017

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

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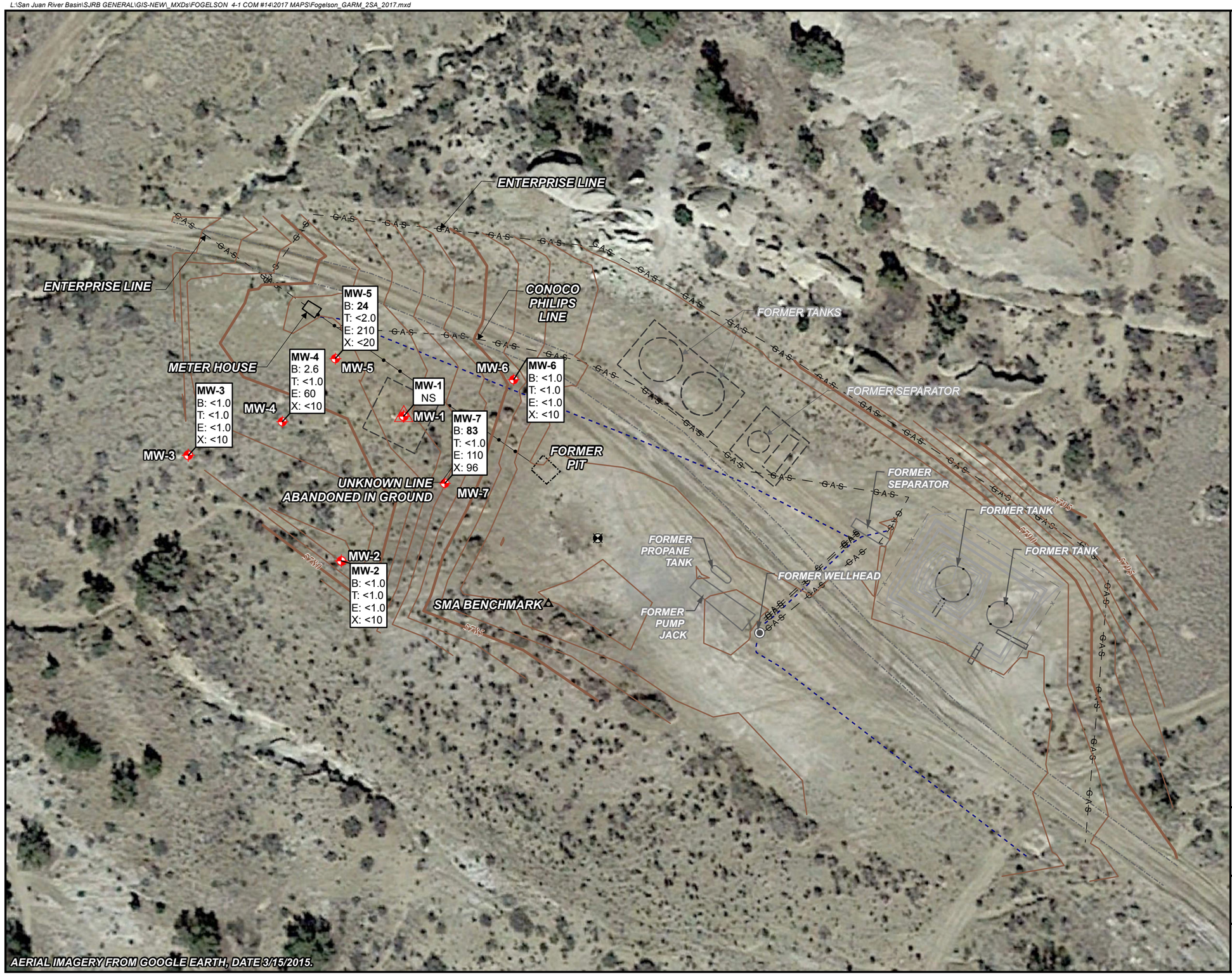

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER EPC PIT
- GAS — GAS LINE
- UNDERGROUND CABLE
- FORMER MONITORING WELL (NOT EPCGP-OWNED)
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- FORMER WELLHEAD
- SMA BENCHMARK

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 = BELOW METHOD DETECTION 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 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	12/13/2017	SLG	SLG	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS NOVEMBER 13, 2017

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **3**

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\FOGELSON 4-1 COM #14\2017 MAPS\Fogelson_GECM_2SA_2017.mxd

ENTERPRISE LINE

ENTERPRISE LINE

CONOCO PHILIPS LINE

METER HOUSE

MW-5
5736.43

MW-5

MW-6
5735.79

MW-6

MW-1
5739.35

MW-1

MW-4
5735.65

MW-4

MW-3

MW-3
5736.39

MW-7
5739.86

MW-7

MW-2
5737.79

MW-2

FORMER TANKS

FORMER SEPARATOR

FORMER PIT

FORMER SEPARATOR

FORMER TANK

FORMER TANK

FORMER PROPANE TANK

FORMER WELLHEAD

SMA BENCHMARK

FORMER PUMP JACK

5736

5737

5738

5739

5740

5705

AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/15/2015.

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER EPC PIT
- GAS — GAS LINE
- UNDERGROUND CABLE
- FORMER MONITORING WELL (NOT EPCGP-OWNED)
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- FORMER WELLHEAD
- SMA BENCHMARK

NOTES:

5739.86 GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS. FEET ABOVE MEAN SEA LEVEL

5739.8 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	12/13/2017	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 13, 2017

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **4**

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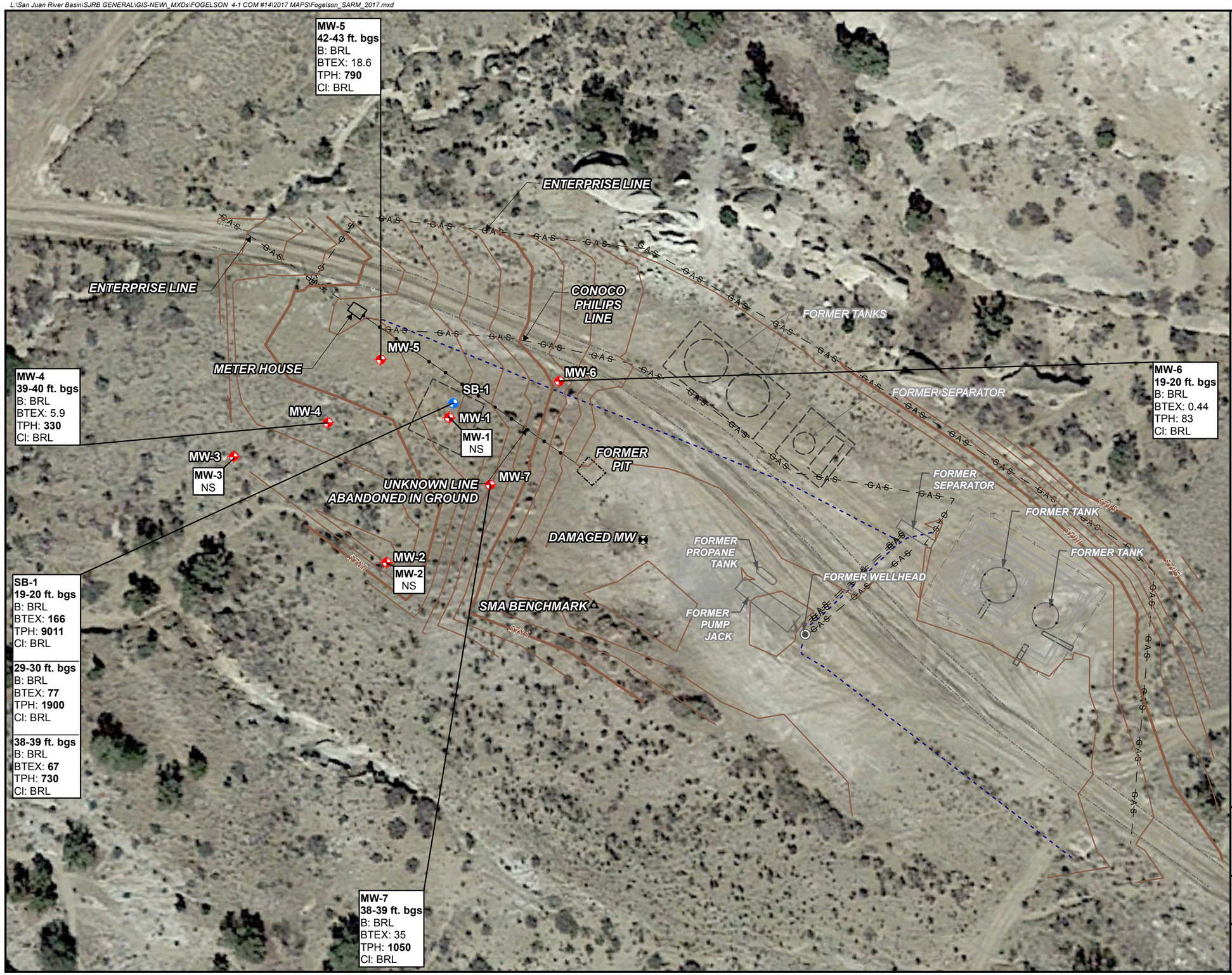

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER EPC PIT
- GAS — GAS LINE
- UNDERGROUND CABLE
- DAMAGED MONITORING WELL (NOT EPCPG-OWNED)
- MONITORING WELL
- SOIL BORING
- FORMER WELLHEAD
- SMA BENCHMARK

NOTES:

MW-4 SAMPLES COLLECTED 4/7/2017; MW-5, MW-6 AND MW-7 SAMPLES COLLECTED 4/8/2017; SB-1 SAMPLES COLLECTED 4/9/2017.

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
TPH = Total Petroleum Hydrocarbons	100 mg/kg
Cl = Chloride	600 mg/kg

N

SCALE IN FEET
0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	5/1/2017	SLG	SLG	SRV

TITLE:

SOIL ANALYTICAL RESULTS

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 5

APPENDICES

APPENDIX A – BOREHOLE AND WELL CONSTRUCTION LOGS

APPENDIX B – SOIL SAMPLING ANALYTICAL REPORT

APPENDIX C – WASTE DISPOSAL DOCUMENTATION

APPENDIX D – NOTIFICATIONS OF SAMPLING ACTIVITIES

APPENDIX E – JUNE 10, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT
NOVEMBER 13, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT

APPENDIX A

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-4**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

Surface Elev. *5779.51 ft* North *36.750739* East *-107.992851*

Top of Casing *5782.14 ft* Water Level Initial ▽ *5738.14* 03/29/17 00:00 Static ▼ *5736.08* 04/09/17 00:00

Hole Depth *56.0ft* Screen: Diameter *2 in* Length *25.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *32.7 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10/20 Silica sand*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Brad Barton*

Start Date *3/29/2017* Completion Date *4/9/2017* Checked By *S. Varsa*

COMMENTS
Surface is dirt with minor vegetation. Approximately 12 feet west of drainage.

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							
0	0.0				ML	Silt, sandy, brown, loose, dry, fine sand, minor clay content, no hydrocarbon odor. (0-8' cleared with a hydro-vac).	
5	0.0	100%					
10	0.0	100%			SM	Sand, silty, brown, loose, dry to slightly moist at 26', very fine sand, minor clay content increasing at 29.5', minor cementation increasing with depth, no hydrocarbon odor, sand compacted in the sampler between 8-24'.	
15	0.0	100%					
20	0.0	100%					
25	0.0	100%					
30	0.0	100%					

Continued Next Page

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-4**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

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	
30	0.0						
	0.0				SM		
	0.0						
	0.0	100%					
35	0.0					Sand, poorly graded, becoming light gray at 37.5', moist, increasing cementation with depth, black hydrocarbon staining and strong odor present from 38-41'.	
	0.0						
	0.2						
	2.6				SP		
	177.2	100% MW4 39-40'					
40	420.1						
	322.3						
▽	15.4					Sandstone, yellowish-brown, hard to very hard, moist, very slight hydrocarbon odor, sand compacted in sampler.	
	11.3						
▼	0.7	100%					
	4.8				SW	Sand, well graded with cobbles, greenish-brown, loose, wet, very slight hydrocarbon odor.	
45	21.8					Sandstone, light gray from 46-47', yellowish-brown to 51.5, light gray to 54.5', dark gray to 56', sand compacted in sampler.	
	4.9						
	20.5						
	6.3	100%					
	3.2						
50	24.4						
	23.2						
	17.6						
	0.4	100%					
	0.3						
55	5.4	100%					
						End of boring = 56'.	
60							
65							
70							

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-5**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

Surface Elev. *5781.08 ft* North *36.750812* East *-107.992776*

Top of Casing *5780.92 ft* Water Level Initial *5737.92* 03/29/17 00:00 Static *5736.88* 04/09/17 00:00

Hole Depth *56.0ft* Screen: Diameter *2 in* Length *25.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *29.9 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10/20 Silica sand*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Brad Barton*

Start Date *3/29/2017* Completion Date *4/9/2017* Checked By *S. Varsa*

COMMENTS
Surface is dirt with minor vegetation.

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.
0	0.0	100%			ML	Silt, sandy, brown, loose, dry, fine sand, minor clay and gravel content, weakly cemented, no hydrocarbon odor. (0-8' cleared with a hydro-vac).
5	0.0					
	0.0	100%				
	0.0					
10	0.0				SM	Sand, silty, brown, loose, dry to slightly moist at 24.5', very fine sand, minor cementation, very slight hydrocarbon odor at 28.5' and 33.5', sand compacted in the sampler between 9-24'.
	0.4					
	0.8					
	0.6					
	0.5	100%				
15	0.5					
	1.0					
	0.3					
	0.2					
	0.9	100%				
20	2.5					
	1.2					
	4.6					
	1.7					
	0.6	100%				
25	0.3					
	0.2					
	0.6					
	1.2					
	6.8	100%				
30	5.7					

Continued Next Page

Well Completion

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-5**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

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	
30	5.4						
	7.6				SM		
	5.7						
	29.6	100%					
35	5.3					Sandstone, brown to light gray at 50', hard, dry to slightly moist to very moist at 43.5', saturated from 45-46', fine to medium sand, slight hydrocarbon odor to strong at 38', gray hydrocarbon staining at 39.5' and from 47-48', sand compacted in sampler.	
	8.7						
	8.4						
	114.1						
	282.6	100%					
40	387.6						
	1436						
	1093						
	1626						
	172.8	100%					
	385.3	MW5 42-43'					
45	177.4						
	25.6						
	123.7						
	3.3	100%					
	38.8						
50	85.3						
	7.0						
	11.0						
	50.3						
	5.2						
55	11.1	100%					
						End of boring = 56'.	
60							
65							
70							

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-6**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

Surface Elev. *5784.04 ft* North *36.750788* East *-107.992523*

Top of Casing *5783.82 ft* Water Level Initial ▽ *5743.82* 03/29/17 00:00 Static ▼ *5737.84* 04/09/17 00:00

Hole Depth *56.0ft* Screen: Diameter *2 in* Length *25.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *29.9 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10/20 Silica sand*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Brad Barton*

Start Date *3/29/2017* Completion Date *4/9/2017* Checked By *S. Varsa*

COMMENTS
Surface is dirt with minor vegetation.

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.
0						
	0.0				ML	Silt, sandy, brown, loose, dry, fine sand, minor clay content, no hydrocarbon odor. (0-8' cleared with a hydro-vac).
5	0.0	100%				
	0.0	100%				
	0.0					
10	0.0				SM	Sand, silty, brown, dry, fine sand, minor cementation, no hydrocarbon odor, sand compacted in the sampler between 9-24'.
	0.0					
	0.0					
	0.0	100%				
15	0.0					Sandstone, light gray to light brown, very hard at 29.5', dry to slightly moist, minor gravel from 39-44', strongly cemented decreasing at 34', slight hydrocarbon odor from 18-20.5' and at 28.5', trace organics,
	0.0					
	0.0					
	0.0					
	6.0	100%				
20	114.0					
	7.5					
	0.5					
	0.9					
	0.7	100% MW6 19-20'				
25	0.0					
	0.0					
	0.0					
	0.7					
	35.6	100%				
30	0.0					

Continued Next Page

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-6**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

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	
30	0.0						
	0.0						
	0.0						
	0.0	100%					
35	0.0						
	0.0						
	0.0						
	0.0						
	0.0						
	0.0	100%					
40	0.0						
	0.0						
	0.0						
	0.0						
	0.0	100%					
45	0.0						
	0.0						
	0.0						
	0.0						
	0.0	100%					
50	0.0						
	0.0						
	0.0						
	0.0						
	0.0						
	0.0						
	0.0	100%					
55						End of boring = 56'.	
60							
65							
70							

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-7**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

Surface Elev. *5781.36 ft* North *36.750669* East *-107.99262*

Top of Casing *5783.95 ft* Water Level Initial *5740.95* 03/29/17 00:00 Static *5740.1* 04/09/17 00:00

Hole Depth *56.0ft* Screen: Diameter *2 in* Length *25.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *32.6 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10/20 Silica sand*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Brad Barton*

Start Date *3/29/2017* Completion Date *4/9/2017* Checked By *S. Varsa*

COMMENTS
Surface is dirt with minor vegetation.

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							
	0.0				ML	Silt, sandy, brown, loose, dry, fine sand, minor clay content, no hydrocarbon odor. (0-8' cleared with a hydro-vac).	
5	0.0	100%					
	0.0	100%					
10	0.0						
	0.0						
	0.0						
	0.0						
	0.0	100%					
15	0.0						
	0.0						
	0.0						
	0.0						
	6.0	100%					
20	114.0				SC SW	Sand, silty, lt. yellowish-brn. 32' to dk. gray 34' to bluish-gray/black 41', loose to med. dense, moist 34' to v. moist 41' to wet 43', fine sand, minor clay 24.5', tr. rounded cobbles 22.5', mod. cementation, strong hydrocarbon odor/staining from 34-43'	
	7.5						
	0.5						
	0.9						
	0.7	100%					
25	0.0						
	0.0						
	0.0						
	0.7						
	35.6	100%					
30	0.0						

Continued Next Page

Drilling Log

MWH now part of Stantec

Monitoring Well **MW-7**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

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	
30	0.0						
	0.0						
	0.0						
	0.0	100%					
35	121.8						
	227.5				SC SW		
	466.8						
	526.1						
	2794	100% MW7 38-39'					
40	1918						
	1976						
	135.1						
	35.6						
	13.3	100%				Sandstone, light brown, wet, well-graded, trace cobbles at 50.5', subangular to angular, slight hydrocarbon odor at 44.5' to no odor at 46.5', trace organics at 54', sand compacted in sampler.	
45	0.4						
	0.3						
	0.3						
	5.5						
	0.4	100%					
50	0.3						
	0.4						
	2.3						
	3.7						
	5.5						
	34.4						
55	6.7	100%				End of boring = 56'.	
60							
65							
70							

Drilling Log

MWH now part of Stantec

Soil Boring **SB-1**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

Surface Elev. *5782.06 ft* North *36.750762* East *-107.992673*

Top of Casing *NA* Water Level Initial ▽ __ 03/29/17 00:00 Static ▼

Hole Depth *45.0ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *8.25 in* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *NA*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Brad Barton*

Start Date *3/29/2017* Completion Date *4/9/2017* Checked By *S. Varsa*

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

COMMENTS
Surface is dirt with minor vegetation. Boring is 7' north of MW-1.

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
0						
	0.0				ML	Silt, sandy, brown, loose, dry, fine sand, minor clay and gravel content, no hydrocarbon odor. (0-8' cleared with a hydro-vac).
5	0.0	100%				
	0.0					
	0.0	100%				
10	0.0					Sand, silty, brown, dry to slightly moist at 26.5', fine sand, minor cementation, very slight hydrocarbon odor at 12.5' becoming strong at 19.5', sand compacted in the sampler.
	0.0					
	2.1					
	3.7					
15	32.7	100%				
	8.4					
	69.4					
	256.5					
	783.6					
20	1313	100% SB1 19-20'			SM	
	350.1					
	1052					
	1001					
	1077					
25	1209	100%				
	852.6					
	1101					
	1111					
	1354					
30	1731	100%				

Continued Next Page

Drilling Log

MWH now part of Stantec

Soil Boring **SB-1**

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *203720279*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
						Continued
30	275.5	SB1 29-30'			SM	
	940.4					
	1422					Sandstone, light gray to light brown changing to dark gray at 36.5' and returning to light brown at 41.5', moderately hard, dry to slightly moist, fine sand, strong hydrocarbon odor and staining from 36.5'-43', very slight odor at 44.5'.
	789.7					
35	1456	100%				
	605.6					
	888.1					
	1398					
	1922					
	894.3	100%				
40	122.4	SB1 38-39'				
	73.0					
	68.6					
	24.2					
	4.7	100%				
45						End of boring = 45'.
50						
55						
60						
65						
70						

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: 400-136430-1
Client Project/Site: El Paso CGP Company LLC - Fogelson 4-1

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

Attn: Ms. Sarah Gardner

Carol M Webb

Authorized for release by:
4/26/2017 10:41:25 AM

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 LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: 400-136430-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-136430-1

Comments
No additional comments.

Receipt
The samples were received on 4/11/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1º C.

HPLC/IC
Method 9056: Due to the nature of the sample matrix, the following samples were prepped via Method 5050 and analyzed by Method 9056: MW-4 (39-40) (400-136430-1), MW-5 (42-43) (400-136430-2), MW-6 (19-20) (400-136430-3), MW-7 (38-39) (400-136430-4), SB-1 (19-20) (400-136430-5), SB-1 (29-30) (400-136430-6) and SB-1 (38-39) (400-136430-7)
The samples contained high organic concentrations. Method 300 could generate interferences in the IC analysis of the leachate due to high organic content.
Both organic chlorine and inorganic chlorine will be converted to Total Chloride by Method 5050 bomb prep, as opposed to Soluble Chloride obtained from a leachate.

No additional analytical or quality issues were noted, other than those described above or 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 following sample was diluted to bring the concentration of target analytes within the calibration range: SB-1 (19-20) (400-136430-5). 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.

General Chemistry
No analytical or quality issues were noted, other than those described 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.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

Client Sample ID: MW-4 (39-40) — Lab Sample ID: 400-136430-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	200		11		mg/Kg	100	☼	8015B	Total/NA
Ethylbenzene	1.6		0.057		mg/Kg	50	☼	8021B	Total/NA
Toluene	3.1		0.28		mg/Kg	50	☼	8021B	Total/NA
Xylenes, Total	1.2		0.28		mg/Kg	50	☼	8021B	Total/NA
C10-C28	130		5.9		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: MW-5 (42-43) — Lab Sample ID: 400-136430-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	540		20		mg/Kg	200	☼	8015B	Total/NA
Ethylbenzene	2.8		0.051		mg/Kg	50	☼	8021B	Total/NA
Toluene	3.8		0.26		mg/Kg	50	☼	8021B	Total/NA
Xylenes, Total	12		0.26		mg/Kg	50	☼	8021B	Total/NA
C10-C28	250		5.6		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: MW-6 (19-20) — Lab Sample ID: 400-136430-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	40		5.1		mg/Kg	50	☼	8015B	Total/NA
Ethylbenzene	0.087		0.051		mg/Kg	50	☼	8021B	Total/NA
Xylenes, Total	0.35		0.25		mg/Kg	50	☼	8021B	Total/NA
C10-C28	43		5.4		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: MW-7 (38-39) — Lab Sample ID: 400-136430-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	780		55		mg/Kg	500	☼	8015B	Total/NA
Ethylbenzene	3.7		0.11		mg/Kg	100	☼	8021B	Total/NA
Toluene	5.3		0.55		mg/Kg	100	☼	8021B	Total/NA
Xylenes, Total	26		0.55		mg/Kg	100	☼	8021B	Total/NA
C10-C28	270		5.6		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: SB-1 (19-20) — Lab Sample ID: 400-136430-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	5700		200		mg/Kg	2000	☼	8015B	Total/NA
Ethylbenzene	4.0		0.25		mg/Kg	250	☼	8021B	Total/NA
Toluene	12		1.2		mg/Kg	250	☼	8021B	Total/NA
Xylenes, Total	150		1.2		mg/Kg	250	☼	8021B	Total/NA
C10-C28	3300		110		mg/Kg	20	☼	8015B	Total/NA
C28-C35	11		5.3		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: SB-1 (29-30) — Lab Sample ID: 400-136430-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	1300		49		mg/Kg	500	☼	8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

Client Sample ID: SB-1 (29-30) (Continued)

Lab Sample ID: 400-136430-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.4		0.098		mg/Kg	100	☼	8021B	Total/NA
Toluene	8.0		0.49		mg/Kg	100	☼	8021B	Total/NA
Xylenes, Total	68		0.49		mg/Kg	100	☼	8021B	Total/NA
C10-C28	600		5.2		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: SB-1 (38-39)

Lab Sample ID: 400-136430-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	620		51		mg/Kg	500	☼	8015B	Total/NA
Ethylbenzene	3.1		0.10		mg/Kg	100	☼	8021B	Total/NA
Toluene	9.0		0.51		mg/Kg	100	☼	8021B	Total/NA
Xylenes, Total	55		0.51		mg/Kg	100	☼	8021B	Total/NA
C10-C28	110		5.3		mg/Kg	1	☼	8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-136430-1	MW-4 (39-40)	Solid	04/07/17 12:15	04/11/17 09:00
400-136430-2	MW-5 (42-43)	Solid	04/08/17 07:45	04/11/17 09:00
400-136430-3	MW-6 (19-20)	Solid	04/08/17 14:40	04/11/17 09:00
400-136430-4	MW-7 (38-39)	Solid	04/08/17 11:00	04/11/17 09:00
400-136430-5	SB-1 (19-20)	Solid	04/09/17 07:55	04/11/17 09:00
400-136430-6	SB-1 (29-30)	Solid	04/09/17 08:10	04/11/17 09:00
400-136430-7	SB-1 (38-39)	Solid	04/09/17 08:40	04/11/17 09:00

Client Sample ID: MW-4 (39-40)

Date Collected: 04/07/17 12:15
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-1

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**200**		11		mg/Kg	☼	04/12/17 15:50	04/12/17 23:55	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*93*		*65 - 125*	*04/12/17 15:50*	*04/12/17 23:55*	*100*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.057		0.057		mg/Kg	☼	04/12/17 15:50	04/13/17 17:58	50
Ethylbenzene	**1.6**		0.057		mg/Kg	☼	04/12/17 15:50	04/13/17 17:58	50
Toluene	**3.1**		0.28		mg/Kg	☼	04/12/17 15:50	04/13/17 17:58	50
Xylenes, Total	**1.2**		0.28		mg/Kg	☼	04/12/17 15:50	04/13/17 17:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*118*		*40 - 150*	*04/12/17 15:50*	*04/13/17 17:58*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**130**		5.9		mg/Kg	☼	04/17/17 09:35	04/18/17 21:03	1
C28-C35	<5.9		5.9		mg/Kg	☼	04/17/17 09:35	04/18/17 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*27 - 151*	*04/17/17 09:35*	*04/18/17 21:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<150		150		mg/Kg	☼	04/20/17 11:28	04/21/17 05:17	1

Client Sample ID: MW-5 (42-43)

Date Collected: 04/08/17 07:45
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-2

Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**540**		20		mg/Kg	☼	04/12/17 12:00	04/14/17 22:09	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*88*		*65 - 125*	*04/12/17 12:00*	*04/14/17 22:09*	*200*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.051		0.051		mg/Kg	☼	04/12/17 12:00	04/13/17 18:57	50
Ethylbenzene	**2.8**		0.051		mg/Kg	☼	04/12/17 12:00	04/13/17 18:57	50
Toluene	**3.8**		0.26		mg/Kg	☼	04/12/17 12:00	04/13/17 18:57	50
Xylenes, Total	**12**		0.26		mg/Kg	☼	04/12/17 12:00	04/13/17 18:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*121*		*40 - 150*	*04/12/17 12:00*	*04/13/17 18:57*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**250**		5.6		mg/Kg	☼	04/17/17 09:35	04/18/17 21:13	1
C28-C35	<5.6		5.6		mg/Kg	☼	04/17/17 09:35	04/18/17 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*27 - 151*	*04/17/17 09:35*	*04/18/17 21:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<160		160		mg/Kg	☼	04/20/17 11:41	04/21/17 05:40	1

Client Sample ID: MW-6 (19-20)

Date Collected: 04/08/17 14:40
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-3

Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**40**		5.1		mg/Kg	☼	04/12/17 15:50	04/14/17 19:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*04/12/17 15:50*	*04/14/17 19:52*	*50*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.051		0.051		mg/Kg	☼	04/12/17 15:50	04/13/17 19:56	50
Ethylbenzene	**0.087**		0.051		mg/Kg	☼	04/12/17 15:50	04/13/17 19:56	50
Toluene	<0.25		0.25		mg/Kg	☼	04/12/17 15:50	04/13/17 19:56	50
Xylenes, Total	**0.35**		0.25		mg/Kg	☼	04/12/17 15:50	04/13/17 19:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*89*		*40 - 150*	*04/12/17 15:50*	*04/13/17 19:56*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**43**		5.4		mg/Kg	☼	04/17/17 09:35	04/18/17 21:23	1
C28-C35	<5.4		5.4		mg/Kg	☼	04/17/17 09:35	04/18/17 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*27 - 151*	*04/17/17 09:35*	*04/18/17 21:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<130		130		mg/Kg	☼	04/20/17 11:47	04/21/17 06:03	1

Client Sample ID: MW-7 (38-39)

Date Collected: 04/08/17 11:00
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-4

Matrix: Solid
Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**780**		55		mg/Kg	☼	04/12/17 12:00	04/14/17 22:37	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*65 - 125*	*04/12/17 12:00*	*04/14/17 22:37*	*500*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.11		0.11		mg/Kg	☼	04/12/17 12:00	04/13/17 20:55	100
Ethylbenzene	**3.7**		0.11		mg/Kg	☼	04/12/17 12:00	04/13/17 20:55	100
Toluene	**5.3**		0.55		mg/Kg	☼	04/12/17 12:00	04/13/17 20:55	100
Xylenes, Total	**26**		0.55		mg/Kg	☼	04/12/17 12:00	04/13/17 20:55	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*121*		*40 - 150*	*04/12/17 12:00*	*04/13/17 20:55*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**270**		5.6		mg/Kg	☼	04/17/17 09:35	04/18/17 21:33	1
C28-C35	<5.6		5.6		mg/Kg	☼	04/17/17 09:35	04/18/17 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*27 - 151*	*04/17/17 09:35*	*04/18/17 21:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<120		120		mg/Kg	☼	04/20/17 12:00	04/21/17 06:26	1

Client Sample ID: SB-1 (19-20)

Date Collected: 04/09/17 07:55
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-5

Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**5700**		200		mg/Kg	☼	04/12/17 12:00	04/14/17 23:04	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*65 - 125*	*04/12/17 12:00*	*04/14/17 23:04*	*2000*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.25		0.25		mg/Kg	☼	04/12/17 12:00	04/13/17 22:53	250
Ethylbenzene	**4.0**		0.25		mg/Kg	☼	04/12/17 12:00	04/13/17 22:53	250
Toluene	**12**		1.2		mg/Kg	☼	04/12/17 12:00	04/13/17 22:53	250
Xylenes, Total	**150**		1.2		mg/Kg	☼	04/12/17 12:00	04/13/17 22:53	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*104*		*40 - 150*	*04/12/17 12:00*	*04/13/17 22:53*	*250*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**3300**		110		mg/Kg	☼	04/17/17 09:35	04/19/17 18:41	20
C28-C35	**11**		5.3		mg/Kg	☼	04/17/17 09:35	04/18/17 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*27 - 151*	*04/17/17 09:35*	*04/18/17 21:42*	*1*
o-Terphenyl	*73*		*27 - 151*	*04/17/17 09:35*	*04/19/17 18:41*	*20*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<140		140		mg/Kg	☼	04/20/17 12:28	04/21/17 06:49	1

Client Sample ID: SB-1 (29-30)

Date Collected: 04/09/17 08:10
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-6

Matrix: Solid
Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**1300**		49		mg/Kg	☼	04/12/17 12:00	04/14/17 23:31	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*65 - 125*	*04/12/17 12:00*	*04/14/17 23:31*	*500*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.098		0.098		mg/Kg	☼	04/12/17 12:00	04/13/17 23:52	100
Ethylbenzene	**1.4**		0.098		mg/Kg	☼	04/12/17 12:00	04/13/17 23:52	100
Toluene	**8.0**		0.49		mg/Kg	☼	04/12/17 12:00	04/13/17 23:52	100
Xylenes, Total	**68**		0.49		mg/Kg	☼	04/12/17 12:00	04/13/17 23:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*111*		*40 - 150*	*04/12/17 12:00*	*04/13/17 23:52*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**600**		5.2		mg/Kg	☼	04/17/17 09:35	04/18/17 21:52	1
C28-C35	<5.2		5.2		mg/Kg	☼	04/17/17 09:35	04/18/17 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*101*		*27 - 151*	*04/17/17 09:35*	*04/18/17 21:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<150		150		mg/Kg	☼	04/20/17 12:32	04/21/17 07:57	1

Client Sample ID: SB-1 (38-39)

Date Collected: 04/09/17 08:40
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-7

Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**620**		51		mg/Kg	☼	04/12/17 12:00	04/14/17 23:58	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*	*04/12/17 12:00*	*04/14/17 23:58*	*500*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.10		0.10		mg/Kg	☼	04/12/17 12:00	04/14/17 00:50	100
Ethylbenzene	**3.1**		0.10		mg/Kg	☼	04/12/17 12:00	04/14/17 00:50	100
Toluene	**9.0**		0.51		mg/Kg	☼	04/12/17 12:00	04/14/17 00:50	100
Xylenes, Total	**55**		0.51		mg/Kg	☼	04/12/17 12:00	04/14/17 00:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*133*		*40 - 150*	*04/12/17 12:00*	*04/14/17 00:50*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**110**		5.3		mg/Kg	☼	04/17/17 09:35	04/18/17 22:02	1
C28-C35	<5.3		5.3		mg/Kg	☼	04/17/17 09:35	04/18/17 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*27 - 151*	*04/17/17 09:35*	*04/18/17 22:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<130		130		mg/Kg	☼	04/20/17 12:47	04/21/17 08:20	1

GC VOA

Prep Batch: 349473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	5035	
400-136430-2	MW-5 (42-43)	Total/NA	Solid	5035	
400-136430-3	MW-6 (19-20)	Total/NA	Solid	5035	
400-136430-4	MW-7 (38-39)	Total/NA	Solid	5035	
400-136430-5	SB-1 (19-20)	Total/NA	Solid	5035	
400-136430-6	SB-1 (29-30)	Total/NA	Solid	5035	
400-136430-7	SB-1 (38-39)	Total/NA	Solid	5035	
MB 400-349473/1-A	Method Blank	Total/NA	Solid	5035	
LCS 400-349473/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 400-349473/3-A	Lab Control Sample	Total/NA	Solid	5035	
400-136048-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
400-136048-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
400-136430-3 MS	MW-6 (19-20)	Total/NA	Solid	5035	
400-136430-3 MSD	MW-6 (19-20)	Total/NA	Solid	5035	

Analysis Batch: 349516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	8015B	349473
400-136430-2	MW-5 (42-43)	Total/NA	Solid	8015B	349473
400-136430-3	MW-6 (19-20)	Total/NA	Solid	8015B	349473
400-136430-4	MW-7 (38-39)	Total/NA	Solid	8015B	349473
400-136430-5	SB-1 (19-20)	Total/NA	Solid	8015B	349473
400-136430-6	SB-1 (29-30)	Total/NA	Solid	8015B	349473
400-136430-7	SB-1 (38-39)	Total/NA	Solid	8015B	349473
MB 400-349473/1-A	Method Blank	Total/NA	Solid	8015B	349473
LCS 400-349473/2-A	Lab Control Sample	Total/NA	Solid	8015B	349473
400-136430-3 MS	MW-6 (19-20)	Total/NA	Solid	8015B	349473
400-136430-3 MSD	MW-6 (19-20)	Total/NA	Solid	8015B	349473

Analysis Batch: 349616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	8021B	349473
400-136430-2	MW-5 (42-43)	Total/NA	Solid	8021B	349473
400-136430-3	MW-6 (19-20)	Total/NA	Solid	8021B	349473
400-136430-4	MW-7 (38-39)	Total/NA	Solid	8021B	349473
400-136430-5	SB-1 (19-20)	Total/NA	Solid	8021B	349473
400-136430-6	SB-1 (29-30)	Total/NA	Solid	8021B	349473
400-136430-7	SB-1 (38-39)	Total/NA	Solid	8021B	349473
MB 400-349473/1-A	Method Blank	Total/NA	Solid	8021B	349473
LCS 400-349473/3-A	Lab Control Sample	Total/NA	Solid	8021B	349473
400-136048-A-5-E MS	Matrix Spike	Total/NA	Solid	8021B	349473
400-136048-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	349473

GC Semi VOA

Prep Batch: 349990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	3546	
400-136430-2	MW-5 (42-43)	Total/NA	Solid	3546	
400-136430-3	MW-6 (19-20)	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 349990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-4	MW-7 (38-39)	Total/NA	Solid	3546	
400-136430-5	SB-1 (19-20)	Total/NA	Solid	3546	
400-136430-6	SB-1 (29-30)	Total/NA	Solid	3546	
400-136430-7	SB-1 (38-39)	Total/NA	Solid	3546	
MB 400-349990/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-349990/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-136382-A-4-E MS	Matrix Spike	Total/NA	Solid	3546	
400-136382-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 350249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	8015B	349990
400-136430-2	MW-5 (42-43)	Total/NA	Solid	8015B	349990
400-136430-3	MW-6 (19-20)	Total/NA	Solid	8015B	349990
400-136430-4	MW-7 (38-39)	Total/NA	Solid	8015B	349990
400-136430-5	SB-1 (19-20)	Total/NA	Solid	8015B	349990
400-136430-6	SB-1 (29-30)	Total/NA	Solid	8015B	349990
400-136430-7	SB-1 (38-39)	Total/NA	Solid	8015B	349990
MB 400-349990/1-A	Method Blank	Total/NA	Solid	8015B	349990
LCS 400-349990/2-A	Lab Control Sample	Total/NA	Solid	8015B	349990
400-136382-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B	349990
400-136382-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	349990

Analysis Batch: 350408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-5	SB-1 (19-20)	Total/NA	Solid	8015B	349990

General Chemistry

Analysis Batch: 349782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	Moisture	
400-136430-2	MW-5 (42-43)	Total/NA	Solid	Moisture	
400-136430-3	MW-6 (19-20)	Total/NA	Solid	Moisture	
400-136430-4	MW-7 (38-39)	Total/NA	Solid	Moisture	
400-136430-5	SB-1 (19-20)	Total/NA	Solid	Moisture	
400-136430-6	SB-1 (29-30)	Total/NA	Solid	Moisture	
400-136430-7	SB-1 (38-39)	Total/NA	Solid	Moisture	
400-136432-E-5 MS	Matrix Spike	Total/NA	Solid	Moisture	
400-136432-E-5 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
400-136432-E-1 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 350601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	5050	
400-136430-2	MW-5 (42-43)	Total/NA	Solid	5050	
400-136430-3	MW-6 (19-20)	Total/NA	Solid	5050	
400-136430-4	MW-7 (38-39)	Total/NA	Solid	5050	
400-136430-5	SB-1 (19-20)	Total/NA	Solid	5050	
400-136430-6	SB-1 (29-30)	Total/NA	Solid	5050	

General Chemistry (Continued)

Prep Batch: 350601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-7	SB-1 (38-39)	Total/NA	Solid	5050	
MB 400-350601/1-A	Method Blank	Total/NA	Solid	5050	
LCS 400-350601/2-A	Lab Control Sample	Total/NA	Solid	5050	
400-136550-C-1-B MS	Matrix Spike	Total/NA	Solid	5050	
400-136550-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5050	

Analysis Batch: 350654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136430-1	MW-4 (39-40)	Total/NA	Solid	5050/9056	350601
400-136430-2	MW-5 (42-43)	Total/NA	Solid	5050/9056	350601
400-136430-3	MW-6 (19-20)	Total/NA	Solid	5050/9056	350601
400-136430-4	MW-7 (38-39)	Total/NA	Solid	5050/9056	350601
400-136430-5	SB-1 (19-20)	Total/NA	Solid	5050/9056	350601
400-136430-6	SB-1 (29-30)	Total/NA	Solid	5050/9056	350601
400-136430-7	SB-1 (38-39)	Total/NA	Solid	5050/9056	350601
MB 400-350601/1-A	Method Blank	Total/NA	Solid	5050/9056	350601
LCS 400-350601/2-A	Lab Control Sample	Total/NA	Solid	5050/9056	350601
400-136550-C-1-B MS	Matrix Spike	Total/NA	Solid	5050/9056	350601
400-136550-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5050/9056	350601

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

Lab Sample ID: MB 400-349473/1-A
Matrix: Solid
Analysis Batch: 349516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349473

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<5.0		5.0		mg/Kg		04/12/17 12:00	04/13/17 15:04	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*65 - 125*	*04/12/17 12:00*	*04/13/17 15:04*	*50*

Lab Sample ID: LCS 400-349473/2-A
Matrix: Solid
Analysis Batch: 349516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349473

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) C6--C10			50.0	52.4		mg/Kg		105	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*97*		*65 - 125*

Lab Sample ID: 400-136430-3 MS
Matrix: Solid
Analysis Batch: 349516

Client Sample ID: MW-6 (19-20)
Prep Type: Total/NA
Prep Batch: 349473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) C6--C10	44		50.5	85.2		mg/Kg	☼	82	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*95*		*65 - 125*

Lab Sample ID: 400-136430-3 MSD
Matrix: Solid
Analysis Batch: 349516

Client Sample ID: MW-6 (19-20)
Prep Type: Total/NA
Prep Batch: 349473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) C6--C10	44		50.5	85.0		mg/Kg	☼	82	10 - 150	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-349473/1-A
Matrix: Solid
Analysis Batch: 349616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349473

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.050		0.050		mg/Kg		04/12/17 12:00	04/13/17 14:01	50
Ethylbenzene	<0.050		0.050		mg/Kg		04/12/17 12:00	04/13/17 14:01	50

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

Lab Sample ID: MB 400-349473/1-A
Matrix: Solid
Analysis Batch: 349616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349473

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		0.25		mg/Kg		04/12/17 12:00	04/13/17 14:01	50
Xylenes, Total	<0.25		0.25		mg/Kg		04/12/17 12:00	04/13/17 14:01	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*91*		*40 - 150*	*04/12/17 12:00*	*04/13/17 14:01*	*50*

Lab Sample ID: LCS 400-349473/3-A
Matrix: Solid
Analysis Batch: 349616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349473

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			2.50	2.42		mg/Kg		97	74 - 127		
Ethylbenzene			2.50	2.48		mg/Kg		99	79 - 131		
Toluene			2.50	2.46		mg/Kg		99	76 - 127		
Xylenes, Total			7.50	7.49		mg/Kg		100	80 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*86*		*40 - 150*

Lab Sample ID: 400-136048-A-5-E MS
Matrix: Solid
Analysis Batch: 349616

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 349473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.062		3.09	2.74		mg/Kg	☼	89	10 - 150		
Ethylbenzene	0.50		3.09	3.28		mg/Kg	☼	90	10 - 150		
Toluene	1.2		3.09	4.13		mg/Kg	☼	94	10 - 150		
Xylenes, Total	2.4		9.28	11.5		mg/Kg	☼	98	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*93*		*40 - 150*

Lab Sample ID: 400-136048-A-5-F MSD
Matrix: Solid
Analysis Batch: 349616

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 349473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.062		3.09	2.50		mg/Kg	☼	81	10 - 150	9	34
Ethylbenzene	0.50		3.09	3.04		mg/Kg	☼	82	10 - 150	7	66
Toluene	1.2		3.09	3.66		mg/Kg	☼	79	10 - 150	12	44
Xylenes, Total	2.4		9.28	10.9		mg/Kg	☼	92	50 - 150	5	46

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*92*		*40 - 150*

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

Lab Sample ID: MB 400-349990/1-A
Matrix: Solid
Analysis Batch: 350249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349990

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.0		5.0		mg/Kg		04/17/17 09:35	04/18/17 18:48	1
C28-C35	<5.0		5.0		mg/Kg		04/17/17 09:35	04/18/17 18:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*27 - 151*	*04/17/17 09:35*	*04/18/17 18:48*	*1*

Lab Sample ID: LCS 400-349990/2-A
Matrix: Solid
Analysis Batch: 350249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349990

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			338	336		mg/Kg		99	63 - 153		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*106*		*27 - 151*

Lab Sample ID: 400-136382-A-4-E MS
Matrix: Solid
Analysis Batch: 350249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 349990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	61		402	356		mg/Kg	☼	73	62 - 204		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*84*		*27 - 151*

Lab Sample ID: 400-136382-A-4-F MSD
Matrix: Solid
Analysis Batch: 350249

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 349990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	61		398	368		mg/Kg	☼	77	62 - 204	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*93*		*27 - 151*

Method: 5050/9056 - Total Chlorine

Lab Sample ID: MB 400-350601/1-A
Matrix: Solid
Analysis Batch: 350654

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350601

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<200		200		mg/Kg		04/20/17 10:40	04/21/17 03:00	1

Method: 5050/9056 - Total Chlorine (Continued)

Lab Sample ID: LCS 400-350601/2-A
Matrix: Solid
Analysis Batch: 350654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350601

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			982	907		mg/Kg		92	60 - 140		

Lab Sample ID: 400-136550-C-1-B MS
Matrix: Solid
Analysis Batch: 350654

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 350601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	<130		129	<130		mg/Kg		NC	60 - 140		

Lab Sample ID: 400-136550-C-1-C MSD
Matrix: Solid
Analysis Batch: 350654

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 350601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<130		125	<130		mg/Kg		NC	60 - 140	NC	30

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

Client Sample ID: MW-4 (39-40)
Date Collected: 04/07/17 12:15
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-1
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			349782	04/14/17 13:24	DAS	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-4 (39-40)
Date Collected: 04/07/17 12:15
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-1
Matrix: Solid
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.28 g	5.00 g	349473	04/12/17 15:50	SAB	TAL PEN
Total/NA	Analysis	8015B		100	5 mL	5 mL	349516	04/12/17 23:55	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.28 g	5.00 g	349473	04/12/17 15:50	SAB	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	349616	04/13/17 17:58	GRK	TAL PEN
	Instrument ID: ETHYL									
Total/NA	Prep	3546			15.08 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		1			350249	04/18/17 21:03	TJB	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	5050			0.7843 g	100 mL	350601	04/20/17 11:28	KJR	TAL PEN
Total/NA	Analysis	5050/9056		1			350654	04/21/17 05:17	KH1	TAL PEN
	Instrument ID: IC2									

Client Sample ID: MW-5 (42-43)
Date Collected: 04/08/17 07:45
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-2
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			349782	04/14/17 13:24	DAS	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-5 (42-43)
Date Collected: 04/08/17 07:45
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-2
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.46 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8015B		200	5 mL	5 mL	349516	04/14/17 22:09	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.46 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	349616	04/13/17 18:57	GRK	TAL PEN
	Instrument ID: ETHYL									
Total/NA	Prep	3546			15.08 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		1			350249	04/18/17 21:13	TJB	TAL PEN
	Instrument ID: WALLE									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

Client Sample ID: MW-5 (42-43)

Lab Sample ID: 400-136430-2
Date Collected: 04/08/17 07:45
Matrix: Solid
Date Received: 04/11/17 09:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5050			0.6887 g	100 mL	350601	04/20/17 11:41	KJR	TAL PEN
Total/NA	Analysis	5050/9056		1			350654	04/21/17 05:40	KH1	TAL PEN
	Instrument ID: IC2									

Client Sample ID: MW-6 (19-20)

Lab Sample ID: 400-136430-3
Date Collected: 04/08/17 14:40
Matrix: Solid
Date Received: 04/11/17 09:00

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			349782	04/14/17 13:24	DAS	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-6 (19-20)

Lab Sample ID: 400-136430-3
Date Collected: 04/08/17 14:40
Matrix: Solid
Date Received: 04/11/17 09:00
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.35 g	5.00 g	349473	04/12/17 15:50	SAB	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	349516	04/14/17 19:52	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.35 g	5.00 g	349473	04/12/17 15:50	SAB	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	349616	04/13/17 19:56	GRK	TAL PEN
	Instrument ID: ETHYL									
Total/NA	Prep	3546			15.08 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		1			350249	04/18/17 21:23	TJB	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	5050			0.8583 g	100 mL	350601	04/20/17 11:47	KJR	TAL PEN
Total/NA	Analysis	5050/9056		1			350654	04/21/17 06:03	KH1	TAL PEN
	Instrument ID: IC2									

Client Sample ID: MW-7 (38-39)

Lab Sample ID: 400-136430-4
Date Collected: 04/08/17 11:00
Matrix: Solid
Date Received: 04/11/17 09:00

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			349782	04/14/17 13:24	DAS	TAL PEN
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

Client Sample ID: MW-7 (38-39)

Date Collected: 04/08/17 11:00
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-4

Matrix: Solid
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.10 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8015B		500	5 mL	5 mL	349516	04/14/17 22:37	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.10 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8021B		100	5 mL	5 mL	349616	04/13/17 20:55	GRK	TAL PEN
	Instrument ID: ETHYL									
Total/NA	Prep	3546			14.93 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		1			350249	04/18/17 21:33	TJB	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	5050			0.9270 g	100 mL	350601	04/20/17 12:00	KJR	TAL PEN
Total/NA	Analysis	5050/9056		1			350654	04/21/17 06:26	KH1	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-1 (19-20)

Date Collected: 04/09/17 07:55
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-5

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			349782	04/14/17 13:24	DAS	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-1 (19-20)

Date Collected: 04/09/17 07:55
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-5

Matrix: Solid
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.44 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8015B		2000	5 mL	5 mL	349516	04/14/17 23:04	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.44 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8021B		250	5 mL	5 mL	349616	04/13/17 22:53	GRK	TAL PEN
	Instrument ID: ETHYL									
Total/NA	Prep	3546			15.09 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		1			350249	04/18/17 21:42	TJB	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	3546			15.09 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		20			350408	04/19/17 18:41	TJB	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	5050			0.7630 g	100 mL	350601	04/20/17 12:28	KJR	TAL PEN
Total/NA	Analysis	5050/9056		1			350654	04/21/17 06:49	KH1	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-1 (29-30)

Lab Sample ID: 400-136430-6
Date Collected: 04/09/17 08:10
Matrix: Solid
Date Received: 04/11/17 09:00

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			349782	04/14/17 13:24	DAS	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-1 (29-30)

Lab Sample ID: 400-136430-6
Date Collected: 04/09/17 08:10
Matrix: Solid
Date Received: 04/11/17 09:00
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.36 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8015B		500	5 mL	5 mL	349516	04/14/17 23:31	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.36 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8021B		100	5 mL	5 mL	349616	04/13/17 23:52	GRK	TAL PEN
	Instrument ID: ETHYL									
Total/NA	Prep	3546			14.99 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		1			350249	04/18/17 21:52	TJB	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	5050			0.7195 g	100 mL	350601	04/20/17 12:32	KJR	TAL PEN
Total/NA	Analysis	5050/9056		1			350654	04/21/17 07:57	KH1	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-1 (38-39)

Lab Sample ID: 400-136430-7
Date Collected: 04/09/17 08:40
Matrix: Solid
Date Received: 04/11/17 09:00

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			349782	04/14/17 13:24	DAS	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-1 (38-39)

Lab Sample ID: 400-136430-7
Date Collected: 04/09/17 08:40
Matrix: Solid
Date Received: 04/11/17 09:00
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.18 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8015B		500	5 mL	5 mL	349516	04/14/17 23:58	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.18 g	5.00 g	349473	04/12/17 12:00	SAB	TAL PEN
Total/NA	Analysis	8021B		100	5 mL	5 mL	349616	04/14/17 00:50	GRK	TAL PEN
	Instrument ID: ETHYL									
Total/NA	Prep	3546			15.05 g	1 mL	349990	04/17/17 09:35	KLR	TAL PEN
Total/NA	Analysis	8015B		1			350249	04/18/17 22:02	TJB	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	5050			0.8051 g	100 mL	350601	04/20/17 12:47	KJR	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

Client Sample ID: SB-1 (38-39)
Date Collected: 04/09/17 08:40
Date Received: 04/11/17 09:00

Lab Sample ID: 400-136430-7
Matrix: Solid
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	5050/9056		1			350654	04/21/17 08:20	KH1	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: 400-136430-1
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

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	06-30-17
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	06-30-17
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	06-30-17
Louisiana (DW)	NELAP Secondary AB	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	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
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	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Fogelson 4-1

TestAmerica Job ID: 400-136430-1

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
5050/9056	Total Chlorine	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

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: Brad Barton	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-64037-26440.1
Client Contact: Steve Varsa	Phone: 316 305 2789	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc				Job #:
Address: 11153 Aurora Avenue	Due Date Requested: Per ARF			
City: Des Moines	TAT Requested (days): Per ARF			
State, Zip: IA, 50322-7904				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			
Email: steve.varsa@stantec.com	WO#: ~~ARF #~~ ERG-MW4-03-13-17-LSH-02			
Project Name: Fogelson 4-1 Soil	Project #: 40005479			
Site: Fogelson 4-1	SSOW#:			

Analysis Requested

400-136430 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)	8021B - BTEX 8021	8015B_GRO; 8021B	8015B_DRO - DRO C10-C28 / ORO, Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N		
MW-4 (39-40)	4/7/17	1215	G	Soil	N	N		1	1	2	Per ARF
MW-5 (42-43)	4/8/17	0745	G	Solid	N	N		1	1	2	
MW-6 (19-20)	4/8/17	1440	G	Solid	N	N		1	1	2	
MW-7 (38-39)	4/8/17	1100	G	Solid	N	N		1	1	2	
SB-1 (19-20)	4/9/17	0755	G	Solid	N	N		1	1	2	
SB-1 (29-30)	4/9/17	0810	G	Solid	N	N		1	1	2	
SB-1 (38-39)	4/9/17	0840	G	Solid	N	N		1	1	2	
				Solid							
				Solid							
				Solid							
				Solid							

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) Per ARF

Special Instructions/QC Requirements: Per ARF

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Brad Barton	Date/Time: 4/10/17 @ 0900	Company MW4/Stake	Received by: Fed Ex office	Date/Time: 4/10/17 0900	Company Fed Ex
Relinquished by: Fed Ex	Date/Time: 4/11/17 -	Company Fed Ex	Received by: Indumathi Chandra	Date/Time: 4/11/17 0900	Company

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

Cooler Temperature(s) °C and Other Remarks: 1.1°C IR2

4/26/2017

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-136430-1

Login Number: 136430
List Number: 1
Creator: Franklin, Justin H

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	1.1°C IR-2
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. 683929

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

DATE 4-10-19

GENERATOR: ElPaso

HAULING CO. Sierra

ORDERED BY: Joseph Wiley

INVOICE:

DEL. TKT#.

BILL TO: ElPaso

DRIVER: Juan Medrano
(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	54	Fogelson 4-1	7	25			25	
2							50 BBLS	4:20PM
3								
4								
5								

I, Juan Medrano 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

envirotech

Bill of Lading

MANIFEST # 56283
GENERATOR El Paso
POINT OF ORIGIN Fogelson 4-1
TRANSPORTER Sierra
DATE 4-11-17 JOB # 14073-0024

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-5	Cont soil	M-19		13	-	22	1040	
					13				

RESULTS			LANDFARM EMPLOYEE	NOTES
<290	CHLORIDE TEST	1	Cory Robinson EL	
	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 578-126

envirotech

BOL# 56283

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 4-11-17 TIME 1040

CUSTOMER El Paso

SITE Fogelson 4-1

DRIVER [signature]

SAMPLE (Soil) Straight ✓ With Dirt _____

CHLORIDE TEST 290 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1040 Time completed 1059

PASS YES ✓ NO _____

SAMPLER/ANALYST Gary Robinson

Attach test strip here

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

30 Years of Environmental Health and Safety Excellence

BASIN DISPOSAL

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

NO. 688185
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 6/11/17
DEL. TKT#.
GENERATOR: ElPaso CGP
BILL TO: ElPaso CGP
HAULING CO. ~~Stan. Oil~~ Stantel
DRIVER:
(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		Fogelson 4-1, Gallegos CO 124E	50 BBL					
2		SCU Com A 142E Johnson Fed 4						
3		Johnston Lateral L-40 Fed 6A Lat 0-21 line						
4		Sandoval GC Standard oil A#1A Com 1						
5								

I, Samuel Spicer 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:	Jim.Griswold@state.nm.us
Cc:	brandon.powell@state.nm.us; Wiley, Joe
Subject:	Fogelson 4-1 (3RP-068-0) and Lat O-21 Line Drip (3RP-213-0) - Monitoring Well Installation Work Plans and Notice of Field Work
Date:	Wednesday, March 15, 2017 6:09:32 PM

Mr. Griswold –

The 2017 Monitoring Well Installation Work Plans for the two above-referenced Cases have been uploaded to the Department FTP site for your reference and use. The monitoring well installation activities at Fogelson 4-1 (3RP-068-0) is scheduled to begin on March 29, 2017, with Lat O-21 Line Drip (3RP-213-0) monitoring well installation activities planned to begin on March 30, 2017. Well installation activities are expected to be completed by or before April 14, 2017.

Please contact Mr. Joseph Wiley, Project Manager with El Paso CGP Company, LLC, 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

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: 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: 400-139219-1
Client Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

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

Attn: Ms. Sarah Gardner

Madonna Myers

Authorized for release by:
6/22/2017 10:59:27 AM
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

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: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Job ID: 400-139219-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-139219-1

Comments
No additional comments.

Receipt
The samples were received on 6/13/2017 8:53 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º 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 - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-2 — Lab Sample ID: 400-139219-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-139219-2

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-139219-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.8		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	76		1.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 400-139219-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	24		2.0		ug/L	2		8021B	Total/NA
Ethylbenzene	2.4		2.0		ug/L	2		8021B	Total/NA
Xylenes, Total	120		10		ug/L	2		8021B	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 400-139219-5

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-139219-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	130		2.0		ug/L	2		8021B	Total/NA
Ethylbenzene	150		2.0		ug/L	2		8021B	Total/NA
Xylenes, Total	580		10		ug/L	2		8021B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-139219-7

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139219-1	MW-2	Water	06/10/17 07:20	06/13/17 08:53
400-139219-2	MW-3	Water	06/10/17 07:30	06/13/17 08:53
400-139219-3	MW-4	Water	06/10/17 07:40	06/13/17 08:53
400-139219-4	MW-5	Water	06/10/17 07:50	06/13/17 08:53
400-139219-5	MW-6	Water	06/10/17 08:10	06/13/17 08:53
400-139219-6	MW-7	Water	06/10/17 08:00	06/13/17 08:53
400-139219-7	TRIP BLANK	Water	06/10/17 07:10	06/13/17 08:53

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-2
Date Collected: 06/10/17 07:20
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-1
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			06/16/17 01:29	1
Ethylbenzene	<1.0		1.0		ug/L			06/16/17 01:29	1
Toluene	<5.0		5.0		ug/L			06/16/17 01:29	1
Xylenes, Total	<5.0		5.0		ug/L			06/16/17 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*		*06/16/17 01:29*	*1*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-3
Date Collected: 06/10/17 07:30
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-2
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			06/16/17 01:55	1
Ethylbenzene	<1.0		1.0		ug/L			06/16/17 01:55	1
Toluene	<5.0		5.0		ug/L			06/16/17 01:55	1
Xylenes, Total	<5.0		5.0		ug/L			06/16/17 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*		*06/16/17 01:55*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-4
Date Collected: 06/10/17 07:40
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.8**		1.0		ug/L			06/16/17 02:22	1
Ethylbenzene	**76**		1.0		ug/L			06/16/17 02:22	1
Toluene	<5.0		5.0		ug/L			06/16/17 02:22	1
Xylenes, Total	<5.0		5.0		ug/L			06/16/17 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*		*06/16/17 02:22*	*1*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-5
Date Collected: 06/10/17 07:50
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**24**		2.0		ug/L			06/16/17 02:48	2
Ethylbenzene	**2.4**		2.0		ug/L			06/16/17 02:48	2
Toluene	<10		10		ug/L			06/16/17 02:48	2
Xylenes, Total	**120**		10		ug/L			06/16/17 02:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*78 - 124*		*06/16/17 02:48*	*2*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-6
Date Collected: 06/10/17 08:10
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-5
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			06/16/17 04:06	1
Ethylbenzene	<1.0		1.0		ug/L			06/16/17 04:06	1
Toluene	<5.0		5.0		ug/L			06/16/17 04:06	1
Xylenes, Total	<5.0		5.0		ug/L			06/16/17 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/16/17 04:06*	*1*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-7
Date Collected: 06/10/17 08:00
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	130		2.0		ug/L			06/16/17 04:32	2
Ethylbenzene	150		2.0		ug/L			06/16/17 04:32	2
Toluene	<10		10		ug/L			06/16/17 04:32	2
Xylenes, Total	580		10		ug/L			06/16/17 04:32	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/16/17 04:32*	*2*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: TRIP BLANK
Date Collected: 06/10/17 07:10
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-7
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			06/16/17 04:57	1
Ethylbenzene	<1.0		1.0		ug/L			06/16/17 04:57	1
Toluene	<5.0		5.0		ug/L			06/16/17 04:57	1
Xylenes, Total	<5.0		5.0		ug/L			06/16/17 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*		*06/16/17 04:57*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

GC VOA

Analysis Batch: 357175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139219-1	MW-2	Total/NA	Water	8021B	
400-139219-2	MW-3	Total/NA	Water	8021B	
400-139219-3	MW-4	Total/NA	Water	8021B	
400-139219-4	MW-5	Total/NA	Water	8021B	
400-139219-5	MW-6	Total/NA	Water	8021B	
400-139219-6	MW-7	Total/NA	Water	8021B	
400-139219-7	TRIP BLANK	Total/NA	Water	8021B	
MB 400-357175/2	Method Blank	Total/NA	Water	8021B	
LCS 400-357175/1001	Lab Control Sample	Total/NA	Water	8021B	
400-139063-A-6 MS	Matrix Spike	Total/NA	Water	8021B	
400-139063-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-357175/2
Matrix: Water
Analysis Batch: 357175

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			06/15/17 17:50	1
Ethylbenzene	<1.0		1.0		ug/L			06/15/17 17:50	1
Toluene	<5.0		5.0		ug/L			06/15/17 17:50	1
Xylenes, Total	<5.0		5.0		ug/L			06/15/17 17:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*		*06/15/17 17:50*	*1*

Lab Sample ID: LCS 400-357175/1001
Matrix: Water
Analysis Batch: 357175

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	45.9		ug/L		92	85 - 115		
Ethylbenzene			50.0	45.1		ug/L		90	85 - 115		
Toluene			50.0	46.0		ug/L		92	85 - 115		
Xylenes, Total			150	132		ug/L		88	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*

Lab Sample ID: 400-139063-A-6 MS
Matrix: Water
Analysis Batch: 357175

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	1.4		50.0	56.3		ug/L		110	44 - 150		
Ethylbenzene	<1.0		50.0	56.2		ug/L		112	70 - 142		
Toluene	<5.0		50.0	55.8		ug/L		112	69 - 136		
Xylenes, Total	<5.0		150	170		ug/L		111	68 - 142		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*101*		*78 - 124*

Lab Sample ID: 400-139063-A-6 MSD
Matrix: Water
Analysis Batch: 357175

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	1.4		50.0	59.4		ug/L		116	44 - 150	5	16
Ethylbenzene	<1.0		50.0	58.9		ug/L		118	70 - 142	5	16
Toluene	<5.0		50.0	58.5		ug/L		117	69 - 136	5	16
Xylenes, Total	<5.0		150	177		ug/L		116	68 - 142	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*101*		*78 - 124*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: MW-2
Date Collected: 06/10/17 07:20
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-1
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		1	5 mL	5 mL	357175	06/16/17 01:29	GRK	TAL PEN
	Instrument ID: CH_RITA									

Client Sample ID: MW-3
Date Collected: 06/10/17 07:30
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-2
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		1	5 mL	5 mL	357175	06/16/17 01:55	GRK	TAL PEN
	Instrument ID: CH_RITA									

Client Sample ID: MW-4
Date Collected: 06/10/17 07:40
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-3
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		1	5 mL	5 mL	357175	06/16/17 02:22	GRK	TAL PEN
	Instrument ID: CH_RITA									

Client Sample ID: MW-5
Date Collected: 06/10/17 07:50
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-4
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		2	5 mL	5 mL	357175	06/16/17 02:48	GRK	TAL PEN
	Instrument ID: CH_RITA									

Client Sample ID: MW-6
Date Collected: 06/10/17 08:10
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-5
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	357175	06/16/17 04:06	GRK	TAL PEN
	Instrument ID: CH_RITA									

Client Sample ID: MW-7
Date Collected: 06/10/17 08:00
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-6
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		2	5 mL	5 mL	357175	06/16/17 04:32	GRK	TAL PEN
	Instrument ID: CH_RITA									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

Client Sample ID: TRIP BLANK
Date Collected: 06/10/17 07:10
Date Received: 06/13/17 08:53

Lab Sample ID: 400-139219-7
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	357175	06/16/17 04:57	GRK	TAL PEN
	Instrument ID: CH_RITA									

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: 400-139219-1
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

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	06-30-17
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	06-30-17
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	06-30-17

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fogelson 4-1C

TestAmerica Job ID: 400-139219-1

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: S. Gardner & J. Garvey	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-65857-26932.1
Client Contact: Ms. Sarah Gardner	Phone: 3032912239	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 7 days AW 6-14-17.			
State, Zip: CO, 80202	PO #: Purchase Order Requested			
Phone: 303-291-2239(Tel)	WO #:			
Email: sarah.gardner@mwhglobal.com	Project #: 40005479			
Project Name: Fogelson 4-1 C	SSOW#:			
Site: Fogelson 4-1				

Analysis Requested

400-139219 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)	8021B - BTEX 8021	Total Number of containers	Special Instructions/Note:
			Preserv:				A		
MW-1									Not Sampled
MW-2	6/10/2017	720	G	W	N	N	2	2	
MW-3	6/10/2017	730	G	W	N	N	2	2	
MW-4	6/10/2017	740	G	W	N	N	2	2	
MW-5	6/10/2017	750	G	W	N	N	2	2	Unpreserved
MW-6	6/10/2017	810	G	W	N	N	2	2	
MW-7	6/10/2017	800	G	W	N	N	2	2	
TRIPBLANK	6/10/2017	710	—	W	N	N	2	2	

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]	6/12/2017 800	Stantec	[signature]	6-13-17 0853	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: 1.3 IR-2

6/22/2017

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-139219-1

Login Number: 139219

List Source: TestAmerica Pensacola

List Number: 1

Creator: Franklin, Justin H

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	1.3°C IR-2
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: 400-146065-1
Client Project/Site: El Paso CGP Company - Fogelson 4-1

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

Attn: Ms. Sarah Gardner

Carol M Webb

Authorized for release by:
11/22/2017 2:04:39 PM

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

Table of Contents

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 - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Job ID: 400-146065-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-146065-1

Comments
No additional comments.

Receipt
The samples were received on 11/15/2017 8:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

GC/MS 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: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-5 — Lab Sample ID: 400-146065-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	24		2.0		ug/L	2		8260C	Total/NA
Ethylbenzene	210		2.0		ug/L	2		8260C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 400-146065-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.6		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	60		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-146065-3

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 400-146065-4

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-146065-5

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-146065-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	83		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	110		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	96		10		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-146065-7

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-146065-1	MW-5	Water	11/13/17 16:16	11/15/17 08:12
400-146065-2	MW-4	Water	11/13/17 16:10	11/15/17 08:12
400-146065-3	MW-3	Water	11/13/17 16:04	11/15/17 08:12
400-146065-4	MW-2	Water	11/13/17 15:56	11/15/17 08:12
400-146065-5	MW-6	Water	11/13/17 15:52	11/15/17 08:12
400-146065-6	MW-7	Water	11/13/17 16:27	11/15/17 08:12
400-146065-7	TRIP BLANK	Water	11/13/17 15:20	11/15/17 08:12

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-5
Date Collected: 11/13/17 16:16
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**24**		2.0		ug/L			11/20/17 11:57	2
Toluene	<2.0		2.0		ug/L			11/20/17 11:57	2
Ethylbenzene	**210**		2.0		ug/L			11/20/17 11:57	2
Xylenes, Total	<20		20		ug/L			11/20/17 11:57	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*81 - 121*		*11/20/17 11:57*	*2*
4-Bromofluorobenzene	*99*		*78 - 118*		*11/20/17 11:57*	*2*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/20/17 11:57*	*2*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-4
Date Collected: 11/13/17 16:10
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.6**		1.0		ug/L			11/20/17 11:08	1
Toluene	<1.0		1.0		ug/L			11/20/17 11:08	1
Ethylbenzene	**60**		1.0		ug/L			11/20/17 11:08	1
Xylenes, Total	<10		10		ug/L			11/20/17 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*111*		*81 - 121*		*11/20/17 11:08*	*1*
4-Bromofluorobenzene	*100*		*78 - 118*		*11/20/17 11:08*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/20/17 11:08*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-3
Date Collected: 11/13/17 16:04
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-3
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			11/20/17 14:04	1
Toluene	<1.0		1.0		ug/L			11/20/17 14:04	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/17 14:04	1
Xylenes, Total	<10		10		ug/L			11/20/17 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*107*		*81 - 121*		*11/20/17 14:04*	*1*
4-Bromofluorobenzene	*99*		*78 - 118*		*11/20/17 14:04*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/20/17 14:04*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-2
Date Collected: 11/13/17 15:56
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-4
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			11/20/17 14:31	1
Toluene	<1.0		1.0		ug/L			11/20/17 14:31	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/17 14:31	1
Xylenes, Total	<10		10		ug/L			11/20/17 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*110*		*81 - 121*		*11/20/17 14:31*	*1*
4-Bromofluorobenzene	*99*		*78 - 118*		*11/20/17 14:31*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/20/17 14:31*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-6
Date Collected: 11/13/17 15:52
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-5
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			11/20/17 10:44	1
Toluene	<1.0		1.0		ug/L			11/20/17 10:44	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/17 10:44	1
Xylenes, Total	<10		10		ug/L			11/20/17 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*112*		*81 - 121*		*11/20/17 10:44*	*1*
4-Bromofluorobenzene	*96*		*78 - 118*		*11/20/17 10:44*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/20/17 10:44*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-7
Date Collected: 11/13/17 16:27
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-6
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**83**		1.0		ug/L			11/20/17 11:33	1
Toluene	<1.0		1.0		ug/L			11/20/17 11:33	1
Ethylbenzene	**110**		1.0		ug/L			11/20/17 11:33	1
Xylenes, Total	**96**		10		ug/L			11/20/17 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*109*		*81 - 121*		*11/20/17 11:33*	*1*
4-Bromofluorobenzene	*93*		*78 - 118*		*11/20/17 11:33*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/20/17 11:33*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: TRIP BLANK
Date Collected: 11/13/17 15:20
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-7
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			11/20/17 13:40	1
Toluene	<1.0		1.0		ug/L			11/20/17 13:40	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/17 13:40	1
Xylenes, Total	<10		10		ug/L			11/20/17 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*81 - 121*		*11/20/17 13:40*	*1*
4-Bromofluorobenzene	*99*		*78 - 118*		*11/20/17 13:40*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/20/17 13:40*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

GC/MS VOA

Analysis Batch: 376601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-146065-1	MW-5	Total/NA	Water	8260C	
400-146065-2	MW-4	Total/NA	Water	8260C	
400-146065-3	MW-3	Total/NA	Water	8260C	
400-146065-4	MW-2	Total/NA	Water	8260C	
400-146065-5	MW-6	Total/NA	Water	8260C	
400-146065-6	MW-7	Total/NA	Water	8260C	
400-146065-7	TRIP BLANK	Total/NA	Water	8260C	
MB 400-376601/4	Method Blank	Total/NA	Water	8260C	
LCS 400-376601/1002	Lab Control Sample	Total/NA	Water	8260C	
400-146065-5 MS	MW-6	Total/NA	Water	8260C	
400-146065-5 MSD	MW-6	Total/NA	Water	8260C	

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

Lab Sample ID: MB 400-376601/4
Matrix: Water
Analysis Batch: 376601

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			11/20/17 09:30	1
Toluene	<1.0		1.0		ug/L			11/20/17 09:30	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/17 09:30	1
Xylenes, Total	<10		10		ug/L			11/20/17 09:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*81 - 121*		*11/20/17 09:30*	*1*
4-Bromofluorobenzene	*99*		*78 - 118*		*11/20/17 09:30*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/20/17 09:30*	*1*

Lab Sample ID: LCS 400-376601/1002
Matrix: Water
Analysis Batch: 376601

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	57.2		ug/L		114	70 - 130		
Toluene			50.0	45.2		ug/L		90	70 - 130		
Ethylbenzene			50.0	45.6		ug/L		91	70 - 130		
Xylenes, Total			100	91.5		ug/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*110*		*81 - 121*
4-Bromofluorobenzene	*102*		*78 - 118*
Toluene-d8 (Surr)	*90*		*80 - 120*

Lab Sample ID: 400-146065-5 MS
Matrix: Water
Analysis Batch: 376601

Client Sample ID: MW-6
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	55.6		ug/L		110	56 - 142		
Toluene	<1.0		50.0	41.3		ug/L		83	65 - 130		
Ethylbenzene	<1.0		50.0	41.0		ug/L		82	58 - 131		
Xylenes, Total	<10		100	82.4		ug/L		82	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane	*113*		*81 - 121*
4-Bromofluorobenzene	*106*		*78 - 118*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 400-146065-5 MSD
Matrix: Water
Analysis Batch: 376601

Client Sample ID: MW-6
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	51.8		ug/L		102	56 - 142	7	30
Toluene	<1.0		50.0	38.7		ug/L		77	65 - 130	6	30

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

Lab Sample ID: 400-146065-5 MSD
Matrix: Water
Analysis Batch: 376601

Client Sample ID: MW-6
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	37.7		ug/L		75	58 - 131	9	30
Xylenes, Total	<10		100	74.1		ug/L		74	59 - 130	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane	*112*		*81 - 121*
4-Bromofluorobenzene	*104*		*78 - 118*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: MW-5
Date Collected: 11/13/17 16:16
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-1
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		2	5 mL	5 mL	376601	11/20/17 11:57	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-4
Date Collected: 11/13/17 16:10
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-2
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		1	5 mL	5 mL	376601	11/20/17 11:08	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-3
Date Collected: 11/13/17 16:04
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-3
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		1	5 mL	5 mL	376601	11/20/17 14:04	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-2
Date Collected: 11/13/17 15:56
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-4
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	376601	11/20/17 14:31	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-6
Date Collected: 11/13/17 15:52
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-5
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	376601	11/20/17 10:44	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-7
Date Collected: 11/13/17 16:27
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-6
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	376601	11/20/17 11:33	SAB	TAL PEN
	Instrument ID: CH_TAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

Client Sample ID: TRIP BLANK
Date Collected: 11/13/17 15:20
Date Received: 11/15/17 08:12

Lab Sample ID: 400-146065-7
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	376601	11/20/17 13:40	SAB	TAL PEN
	Instrument ID: CH_TAN									

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: 400-146065-1
Project/Site: El Paso CGP Company - Fogelson 4-1

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 - Fogelson 4-1

TestAmerica Job ID: 400-146065-1

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

400-146065 COC

Client Information	Sampler: Daniel Babcock	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-69055-27989.1
Client Contact: Ms. Sarah Gardner	Phone:	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc		Analysis Requested		Job #: 203720281

Address: 1560 Broadway Suite 1800	Due Date Requested: Normal	
City: Denver	TAT Requested (days): 10 Day Std	
State, Zip: CO, 80202		
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested	
Email: sarah.gardner@mwhglobal.com	WO#: ARF W-SRG-STN-05-17-17-SLG-03	
Project Name: Fogelson 4-1 Com #14 Nov 2017	Project #: 40005479 Fogelson 4-1 Com #14	
Site:	SSOW#:	

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 8260	Special Instructions/Note:
MW-5	11/13/17	1616	G	W	2	Per ARF
MW-4	"	1610	"	"	2	
MW-3	"	1604	"	"	2	
MW-2	"	1556	"	"	2	
MW-6	"	1552	"	"	2	
MW-7	"	1627	"	"	2	
Trip Blank	11/13/17	1520	—	—		

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	Daniel Babcock	11/13/17 1700	Stantec		11.15.17 0812	TA
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.8C IR JJ

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-146065-1

Login Number: 146065

List Source: TestAmerica Pensacola

List Number: 1

Creator: Perez, Trina M

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	0.8°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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	