2017 ANNUAL GROUNDWATER REPORT

Standard Oil Com #1
NMOCD Case#: 3RP-238-0
Meter Code: 70445
T29N, R9W, Sec36, Unit N

SITE DETAILS

Site Location: Latitude: 36.678617 N, Longitude: -107.736788
Land Type: State
Operator: Hilcorp Energy

SITE BACKGROUND

Environmental Remediation activities at the Standard Oil Com #1 (Site) are managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Hilcorp Energy and is active.

The Site is located on State/Fee land. An initial site assessment was completed in May 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in May 1994, removing approximately 60 cubic yards (cy) of soil. Various site investigations have occurred since 1994. Monitoring wells were installed in 1994 (MW-1), 1995 (MW-2 through MW-4), 2006 (MW-5), 2013 (MW-6 through MW-11), and 2015 (MW-12 through MW-16, abandon MW-5). Free product was observed in MW-1 in 1996, but has not been detected since. Currently, groundwater sampling is conducted on a semi-annual basis.

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 A. On June 8 and November 11, 2017, water levels were gauged at MW-1 through MW-4 and MW-6 through MW-16. During the November 2017 sampling event, MW-4 was found to be obstructed by an animal nest, and therefore no water level measurement was collected. Groundwater samples were collected from selected monitoring wells (MW-1, MW-2, MW-7, MW-9, MW-15, and MW-16) using HydraSleeve™ (HydraSleeve) no-purge passive groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells using a suspension tether and stainless steel weights to collect a sample from the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). As requested by the NMOCD on November 13, 2017, BTEX

constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260 during the November sampling event. The unused sample water was combined in a waste container and taken to Basin Disposal, Inc. for disposal. Waste disposal documentation is included as Appendix B.

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively.

SITE MAPS

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

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

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

- Groundwater samples collected in 2017 from MW-1, MW-2, and MW-9 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. The remaining groundwater samples collected in 2017 were either below the NMWQCC standard for benzene or not detected.

- Concentrations of toluene were not detected in the Site monitoring wells sampled in 2017.

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

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

PLANNED FUTURE ACTIVITIES

Pursuant to the work plan dated September 18, 2017, EPCGP will continue to conduct semi-annual groundwater monitoring events through 2018. Monitoring wells sampled during these events will be analyzed for BTEX constituents using EPA Method 8260. The

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

EPCGP will await NMOCD receipt and review of information pertaining to the Burlington Resources release at the site before determining what, if any, additional work may be required of EPCGP.

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TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Standard Oil Com #1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-1	09/12/95	482	629	188	1980
MW-1	11/07/96	277	121	161	1590
MW-1	02/07/97	119	20.2	139	1490
MW-1	05/09/97	105	14.2	145	1480
MW-1	08/08/97	82.6	15.6	140	1400
MW-1	11/04/97	91.4	32.4	141	1320
MW-1	02/03/98	109	31	163	1680
MW-1	05/07/98	107	24.2	161	1640
MW-1	08/04/98	113	48.7	167	1580
MW-1	11/03/98	122	61.3	190	1930
MW-1	02/02/99	157	75.8	204	2100
MW-1	05/19/99	178	55.2	184	1730
MW-1	08/04/99	252	136	203	1890
MW-1	11/09/99	240	98	180	1500
MW-1	02/25/00	1300	1000	260	1700
MW-1	05/24/00	56	120	220	1500
MW-1	08/08/00	12	11	66	470
MW-1	11/06/00	390	110	180	1100
MW-1	02/15/01	280	88	160	1200
MW-1	06/04/01	340	170	170	430
MW-1	08/07/01	510	340	250	1500
MW-1	12/04/01	330	98	150	1200
MW-1	02/25/02	310	170	170	1200
MW-1	05/14/02	250	150	190	1400
MW-1	08/06/02	551	398	214	1041
MW-1	11/04/02	464	207	235	1085
MW-1	02/27/03	600	330	225	993
MW-1	05/19/03	230	206	172	977
MW-1	06/02/04	416	534	287	1330
MW-1	06/24/05	234	310	305	1530
MW-1	06/07/06	66	71.9	165	804
MW-1	06/12/07	29.8	38.2	116	477
MW-1	06/16/08	45.4	37.7	164	598
MW-1	06/10/09	33.7	16.4	156	484
MW-1	06/02/10	23.1	5.4	152	421
MW-1	05/09/11	<50	<50	137	394
MW-1	05/15/12	16.4	2.4	150	510
MW-1	06/05/13	23	3.5	190	54
MW-1	09/11/13	13	0.68 J	220	13
MW-1	12/12/13	12	17	150	8.7
MW-1	04/04/14	21	17	180	<0.65
MW-1	10/24/14	11	<0.70	120	<1.6
MW-1	05/31/15	16	13	130	3.8 J
MW-1	11/24/15	51	29	160	52
MW-1	04/16/16	22	<5.0	110	16
MW-1	10/15/16	36	33	180	72
MW-1	06/08/17	23	<5.0	140	26
MW-1	11/11/17	4.4	<1.0	58	<10

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Standard Oil Com #1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-2	12/13/01	940	74	360	2900
MW-2	05/19/03	673	167	228	1010
MW-2	06/02/04	943	120	309	1130
MW-2	06/24/05	1090	120	418	1510
MW-2	06/07/06	592	37.7	216	692
MW-2	06/12/07	781	<25	286	733
MW-2	06/16/08	480	5.6 J	299	614
MW-2	06/10/09	532	<1	356	836
MW-2	06/02/10	421	3	348	670
MW-2	05/09/11	354	1.5 J	275	461
MW-2	05/15/12	630	12.2	358	892
MW-2	06/05/13	440	94	520	1700
MW-2	09/11/13	390	11	680	2100
MW-2	12/12/13	150	8.6	300	640
MW-2	04/04/14	140	10	240	400
MW-2	10/24/14	59	<0.70	62	1.6 J
MW-2	05/31/15	3.4	2.0 J	8.9	<5.0
MW-2	11/24/15	31	<1.0	19	<3.0
MW-2	04/16/16	11	<5.0	5.1	<5.0
MW-2	10/15/16	140	<5.0	110	<5.0
MW-2	06/08/17	11	<5.0	<1.0	<5.0
MW-2	11/11/17	54	<1.0	<1.0	<10
MW-3	12/13/01	1800	1600	570	5600
MW-3	05/09/11	2370	15.2	429	836
MW-3	05/15/12	2240	10.3	405	807
MW-3	06/05/13	2500	24	400	970
MW-3	09/11/13	2200	<0.6	550	1300
MW-3	12/12/13	1300	<3	390	700
MW-3	04/04/14	1600	<7.5	440	990
MW-3	10/24/14	1300	<3.5	340	490
MW-3	05/31/15	870	6.9 J	240	430
MW-3	11/24/15	2500	<1.0	510	760
MW-3	04/16/16	1400	<50	350	400
MW-4	12/13/01	380	340	780	7300
MW-4	05/09/11	1.6	5.2	227	700
MW-4	05/15/12	59	5	187	545
MW-4	06/05/13	0.16 J	0.56 J	82	71
MW-4	09/11/13	<0.14	0.73 J	140	75
MW-4	12/12/13	0.21 J	13	37	1.1 J
MW-4	04/04/14	<0.20	18	130	48
MW-4	10/24/14	<0.38	<0.70	100	12
MW-4	05/31/15	<1.0	16	84	8.4
MW-4	11/24/15	5.1	1.2	65	3.2
MW-4	04/16/16	3.5	<5.0	59	6.9

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Standard Oil Com #1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-5	11/09/06	NS	NS	NS	NS
MW-5	06/12/07	<1	<1	<1	15.6
MW-5	06/16/08	<1	<1	0.39 J	0.68 J
MW-5	06/10/09	<1	<1	1.7	4.2
MW-5	06/02/10	<2	<2	<2	<6
MW-5	05/09/11	NS	NS	NS	NS
MW-5	05/15/12	NS	NS	NS	NS
MW-5	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-5	09/11/13	<0.14	<0.30	<0.20	<0.23
MW-5	12/12/13	<0.20	<0.38	<0.20	<0.65
MW-5	04/04/14	0.74 J H	<0.38 H	<0.20 H	2 H
MW-5	10/24/14	NS	NS	NS	NS
MW-5	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-5 plugged and abandoned on 11-13-15					
MW-6	12/12/13	60	35	73	220
MW-6	04/04/14	29	9.4	25	38
MW-6	10/24/14	43	<0.70	20	2.5 J
MW-6	05/31/15	23	3.8 J	8.7	<5.0
MW-6	11/24/15	53	<1.0	21	4.6
MW-6	04/16/16	41	<5.0	8.1	<5.0
MW-7	12/12/13	<1.0	110	200	2200
MW-7	04/04/14	<2.0	91	200	2200
MW-7	10/24/14	<3.8	53	380	3400
MW-7	05/31/15	<5.0	28	280	1900
MW-7	11/24/15	90	11	400	1300
MW-7	04/16/16	5.6	12	410	1500
MW-7	10/15/16	8.6	<10	360	450
MW-7	06/08/17	5.8	<10	340	570
MW-7	11/11/17	<2.0	<2.0	200	94
MW-8	12/12/13	350	53	480	780
MW-8	04/04/14	150	<0.38	470	260
MW-8	10/24/14	180	<1.4	460	70
MW-8	05/31/15	44	3.6 J	180	<5.0
MW-8	11/24/15	32	<1.0	29	3.8
MW-8	04/16/16	<1.0	<5.0	1.1	<5.0
MW-9	12/12/13	250	110	250	310
MW-9	04/04/14	130	57	110	100
MW-9	10/24/14	120	2.5	100	29
MW-9	05/31/15	72	<25	77	16 J
MW-9	11/24/15	130	<25	120	<25
MW-9	04/16/16	120	<5.0	130	6
MW-9	10/15/16	120	<5.0	120	8.2
MW-9	06/08/17	130	<5.0	140	8
MW-9	11/11/17	120	<1.0	86	<10

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Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-10	12/12/13	1600	460	130	1100
MW-10	04/04/14	340	5.6 J	62	42
MW-10	10/24/14	430	<1.4	63	12 J
MW-10	05/31/15	130	5.9	20	<5.0
MW-10	11/24/15	1300	<1.0	48	<15
MW-10	04/16/16	45	<5.0	2	<5.0
MW-11	12/12/13	1800	270	410	3000
MW-11	04/04/14	970 H	580	590	3500
MW-11	10/24/14	1800	210	380	2400
MW-11	05/31/15	1300	23 J	270	1200
MW-11	11/24/15	3600	3.8	580	3500
MW-11	04/16/16	3400	<100	660	3400
MW-12	11/24/15	260	8.9	320	2000
MW-12	04/16/16	210	<5.0	210	46
MW-13	11/24/15	<1.0	<1.0	<1.0	<3.0
MW-13	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-14	11/24/15	2.4	<1.0	<1.0	<3.0
MW-14	04/16/16	1.4	<5.0	<1.0	<5.0
MW-15	11/24/15	<1.0	<1.0	<1.0	3.1
MW-15	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-15	10/15/16	<1.0	<5.0	1.7	<5.0
MW-15	06/08/17	<1.0	<5.0	<1.0	<5.0
MW-15	11/11/17	<1.0	<1.0	<1.0	<10
MW-16	11/24/15	120	57	190	1500
MW-16	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-16	10/15/16	<1.0	<5.0	1.7	<5.0
MW-16	06/08/17	1.1	<5.0	2.2	6.2
MW-16	11/11/17	<1.0	<1.0	<1.0	<10

Notes:

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

"µg/L" = micrograms per liter

"NMWQCC" - New Mexico Water Quality Control Commission

Results highlighted yellow exceed their respective NMWQCC standards.

B = Compound was found in the blank and sample.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

H = Sample was prepped or analyzed beyond the specified holding time.

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

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-1	09/12/95	5681.65	21.03	NR		5660.62
MW-1	11/07/96	5681.65	21.30	21.24	0.06	5660.39
MW-1	02/07/97	5681.65	20.96	NR		5660.69
MW-1	05/09/97	5681.65	20.78	NR		5660.87
MW-1	08/08/97	5681.65	21.13	NR		5660.52
MW-1	11/04/97	5681.65	20.86	NR		5660.79
MW-1	02/03/98	5681.65	20.61	NR		5661.04
MW-1	05/07/98	5681.65	20.47	NR		5661.18
MW-1	08/04/98	5681.65	20.85	NR		5660.80
MW-1	11/03/98	5681.65	20.62	NR		5661.03
MW-1	02/02/99	5681.65	20.02	NR		5661.63
MW-1	05/19/99	5681.65	19.86	NR		5661.79
MW-1	08/04/99	5681.65	19.98	NR		5661.67
MW-1	11/09/99	5681.65	19.91	NR		5661.74
MW-1	02/25/00	5681.65	19.69	NR		5661.96
MW-1	05/24/00	5681.65	NR	NR		NA
MW-1	08/08/00	5681.65	NR	NR		NA
MW-1	11/06/00	5681.65	20.29	NR		5661.36
MW-1	02/15/01	5681.65	20.18	NR		5661.47
MW-1	06/04/01	5681.65	20.05	NR		5661.60
MW-1	08/07/01	5681.65	20.41	NR		5661.24
MW-1	12/04/01	5681.65	20.26	NR		5661.39
MW-1	02/25/02	5681.65	20.06	NR		5661.59
MW-1	05/14/02	5681.65	20.17	NR		5661.48
MW-1	08/06/02	5681.65	20.69	NR		5660.96
MW-1	11/04/02	5681.65	20.61	NR		5661.04
MW-1	02/27/03	5681.65	20.24	ND		5661.41
MW-1	05/19/03	5681.65	20.31	ND		5661.34
MW-1	08/18/03	5681.65	21.00	ND		5660.65
MW-1	11/15/03	5681.65	20.41	ND		5661.24
MW-1	02/17/04	5681.65	19.89	ND		5661.76
MW-1	06/02/04	5681.65	19.99	ND		5661.66
MW-1	06/24/05	5681.65	19.98	ND		5661.67
MW-1	06/07/06	5681.65	20.18	ND		5661.47
MW-1	06/12/07	5681.65	19.85	ND		5661.80
MW-1	06/16/08	5681.65	20.24	ND		5661.41
MW-1	06/10/09	5681.65	20.52	ND		5661.13
MW-1	06/02/10	5681.65	20.63	ND		5661.02
MW-1	05/09/11	5681.65	20.60	ND		5661.05
MW-1	05/15/12	5681.65	20.61	ND		5661.04
MW-1	06/05/13	5681.65	20.79	ND		5660.86

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Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-1	09/11/13	5681.65	21.21	ND		5660.44
MW-1	12/12/13	5681.65	20.52	ND		5661.13
MW-1	04/04/14	5681.65	20.10	ND		5661.55
MW-1	10/24/14	5681.65	20.68	ND		5660.97
MW-1	05/31/15	5681.65	19.95	ND		5661.70
MW-1	11/24/15	5681.65	20.44	ND		5661.21
MW-1	04/16/16	5681.65	19.95	ND		5661.70
MW-1	10/15/16	5681.65	20.75	ND		5660.90
MW-1	06/08/17	5681.65	19.88	ND		5661.77
MW-1	11/11/17	5681.65	20.49	ND		5661.16

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Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-2	12/13/01	5688.83	27.15	NR		5661.68
MW-2	08/06/02	5688.83	27.65	NR		5661.18
MW-2	11/04/02	5688.83	27.59	NR		5661.24
MW-2	05/19/03	5688.83	27.29	ND		5661.54
MW-2	08/18/03	5688.83	29.96	ND		5658.87
MW-2	11/15/03	5688.83	27.33	ND		5661.50
MW-2	02/17/04	5688.83	26.86	ND		5661.97
MW-2	06/02/04	5688.83	26.94	ND		5661.89
MW-2	06/24/05	5688.83	26.92	ND		5661.91
MW-2	06/07/06	5688.83	27.12	ND		5661.71
MW-2	06/12/07	5688.83	26.96	ND		5661.87
MW-2	06/16/08	5688.83	27.17	ND		5661.66
MW-2	06/10/09	5688.83	27.45	ND		5661.38
MW-2	06/02/10	5688.83	27.50	ND		5661.33
MW-2	05/09/11	5688.83	27.56	ND		5661.27
MW-2	05/15/12	5688.83	27.53	ND		5661.30
MW-2	06/05/13	5688.83	27.59	ND		5661.24
MW-2	09/11/13	5688.83	28.14	ND		5660.69
MW-2	12/12/13	5688.83	27.43	ND		5661.40
MW-2	04/04/14	5688.83	27.00	ND		5661.83
MW-2	10/24/14	5688.83	27.54	ND		5661.29
MW-2	05/31/15	5688.83	26.83	ND		5662.00
MW-2	11/24/15	5688.83	27.32	ND		5661.51
MW-2	04/16/16	5688.83	26.82	ND		5662.01
MW-2	10/15/16	5688.83	27.66	ND		5661.17
MW-2	06/08/17	5688.83	26.74	ND		5662.09
MW-2	11/11/17	5688.83	27.34	ND		5661.49

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Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-3	12/13/01	5681.69	27.15	NR		5654.54
MW-3	08/06/02	5681.69	27.65	NR		5654.04
MW-3	11/04/02	5681.69	27.59	NR		5654.10
MW-3	05/19/03	5681.69	27.29	ND		5654.40
MW-3	08/18/03	5681.69	29.96	ND		5651.73
MW-3	11/15/03	5681.69	27.33	ND		5654.36
MW-3	02/17/04	5681.69	26.86	ND		5654.83
MW-3	06/02/04	5681.69	26.94	ND		5654.75
MW-3	06/24/05	5681.69	26.92	ND		5654.77
MW-3	06/07/06	5681.69	27.12	ND		5654.57
MW-3	06/12/07	5681.69	26.96	ND		5654.73
MW-3	06/16/08	5681.69	27.17	ND		5654.52
MW-3	06/10/09	5681.69	27.45	ND		5654.24
MW-3	06/02/10	5681.69	27.50	ND		5654.19
MW-3	05/09/11	5681.69	27.56	ND		5654.13
MW-3	05/15/12	5681.69	27.53	ND		5654.16
MW-3	06/05/13	5681.69	21.57	ND		5660.12
MW-3	09/11/13	5681.69	22.02	ND		5659.67
MW-3	12/12/13	5681.69	21.33	ND		5660.36
MW-3	04/04/14	5681.69	20.89	ND		5660.80
MW-3	10/24/14	5681.69	21.49	ND		5660.20
MW-3	05/31/15	5681.69	20.73	ND		5660.96
MW-3	11/24/15	5681.69	21.24	ND		5660.45
MW-3	04/16/16	5681.69	20.73	ND		5660.96
MW-3	10/15/16	5681.69	21.55	ND		5660.14
MW-3	06/08/17	5681.69	20.65	ND		5661.04
MW-3	11/11/17	5681.69	21.30	ND		5660.39

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-4	12/13/01	5677.86	21.10	NR		5656.76
MW-4	08/06/02	5677.86	21.53	NR		5656.32
MW-4	11/04/02	5677.86	21.40	NR		5656.46
MW-4	05/19/03	5677.86	21.07	ND		5656.79
MW-4	08/18/03	5677.86	21.78	ND		5656.08
MW-4	11/15/03	5677.86	21.22	ND		5656.64
MW-4	02/17/04	5677.86	20.74	ND		5657.12
MW-4	06/02/04	5677.86	20.74	ND		5657.12
MW-4	06/24/05	5677.86	20.75	ND		5657.11
MW-4	06/07/06	5677.86	20.96	ND		5656.90
MW-4	06/12/07	5677.86	20.58	ND		5657.28
MW-4	06/16/08	5677.86	20.95	ND		5656.91
MW-4	06/10/09	5677.86	21.23	ND		5656.63
MW-4	06/02/10	5677.86	21.25	ND		5656.61
MW-4	05/09/11	5677.86	21.33	ND		5656.53
MW-4	05/15/12	5677.86	17.60	ND		5660.26
MW-4	06/05/13	5677.86	17.79	ND		5660.07
MW-4	09/11/13	5677.86	18.21	ND		5659.65
MW-4	12/12/13	5677.86	17.56	ND		5660.30
MW-4	04/04/14	5677.86	17.11	ND		5660.75
MW-4	10/24/14	5677.86	17.70	ND		5660.16
MW-4	05/31/15	5677.86	16.95	ND		5660.91
MW-4	11/24/15	5677.86	17.46	ND		5660.40
MW-4	04/16/16	5677.86	16.93	ND		5660.93
MW-4	10/15/16	5677.86	17.76	ND		5660.10
MW-4	06/08/17	5677.86	16.88	ND		5660.98
MW-4	11/11/17	5677.86	NM	NM		NM

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-5	11/09/06	5679.49	17.63	ND		5661.86
MW-5	06/12/07	5679.49	17.85	ND		5661.64
MW-5	06/16/08	5679.49	18.20	ND		5661.29
MW-5	06/10/09	5679.49	18.58	ND		5660.91
MW-5	06/02/10	5679.49	18.65	ND		5660.84
MW-5	05/09/11	5679.49	18.74	ND		5660.75
MW-5	05/15/12	5679.49	18.67	ND		5660.82
MW-5	06/05/13	5679.49	18.88	ND		5660.61
MW-5	09/11/13	5679.49	19.41	ND		5660.08
MW-5	12/12/13	5679.49	18.69	ND		5660.80
MW-5	04/04/14	5679.49	18.18	ND		5661.31
MW-5	10/24/14	5679.49	DRY	ND		DRY
MW-5	10/24/14	5679.49	DRY	ND		DRY
MW-5	05/31/15	5679.49	17.99	ND		5661.50
MW-5 plugged and abandoned on 11-13-15						

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-6	12/12/13	5689.93	27.63	ND		5662.30
MW-6	04/04/14	5689.93	27.20	ND		5662.73
MW-6	10/24/14	5689.93	27.69	ND		5662.24
MW-6	05/31/15	5689.93	27.01	ND		5662.92
MW-6	11/24/15	5689.93	27.49	ND		5662.44
MW-6	04/16/16	5689.93	27.07	ND		5662.86
MW-6	10/15/16	5689.93	27.77	ND		5662.16
MW-6	06/08/17	5689.93	26.91	ND		5663.02
MW-6	11/11/17	5689.93	27.51	ND		5662.42
MW-7	12/12/13	5682.68	21.40	ND		5661.28
MW-7	04/04/14	5682.68	21.00	ND		5661.68
MW-7	10/24/14	5682.68	21.52	ND		5661.16
MW-7	05/31/15	5682.68	20.82	ND		5661.86
MW-7	11/24/15	5682.68	21.30	ND		5661.38
MW-7	04/16/16	5682.68	20.80	ND		5661.88
MW-7	10/15/16	5682.68	21.60	ND		5661.08
MW-7	06/08/17	5682.68	20.74	ND		5661.94
MW-7	11/11/17	5682.68	21.33	ND		5661.35
MW-8	12/12/13	5688.59	27.95	ND		5660.64
MW-8	04/04/14	5688.59	27.49	ND		5661.10
MW-8	10/24/14	5688.59	28.09	ND		5660.50
MW-8	05/31/15	5688.59	27.33	ND		5661.26
MW-8	11/24/15	5688.59	27.85	ND		5660.74
MW-8	04/16/16	5688.59	27.32	ND		5661.27
MW-8	10/15/16	5688.59	28.18	ND		5660.41
MW-8	06/08/17	5688.59	27.23	ND		5661.36
MW-8	11/11/17	5688.59	27.89	ND		5660.70
MW-9	12/12/13	5682.09	21.61	ND		5660.48
MW-9	04/04/14	5682.09	21.11	ND		5660.98
MW-9	10/24/14	5682.09	21.66	ND		5660.43
MW-9	05/31/15	5682.09	20.94	ND		5661.15
MW-9	11/24/15	5682.09	21.41	ND		5660.68
MW-9	04/16/16	5682.09	20.92	ND		5661.17
MW-9	10/15/16	5682.09	21.72	ND		5660.37
MW-9	06/08/17	5682.09	20.85	ND		5661.24
MW-9	11/11/17	5682.09	21.46	ND		5660.63

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-10	12/12/13	5688.16	27.74	ND		5660.42
MW-10	04/04/14	5688.16	27.30	ND		5660.86
MW-10	10/24/14	5688.16	27.91	ND		5660.25
MW-10	05/31/15	5688.16	27.14	ND		5661.02
MW-10	11/24/15	5688.16	27.67	ND		5660.49
MW-10	04/16/16	5688.16	27.13	ND		5661.03
MW-10	10/15/16	5688.16	27.99	ND		5660.17
MW-10	06/08/17	5688.16	27.04	ND		5661.12
MW-10	11/11/17	5688.16	27.74	ND		5660.42
MW-11	12/12/13	5680.33	20.16	ND		5660.17
MW-11	04/04/14	5680.33	19.72	ND		5660.61
MW-11	10/24/14	5680.33	20.32	ND		5660.01
MW-11	05/31/15	5680.33	19.56	ND		5660.77
MW-11	11/24/15	5680.33	20.07	ND		5660.26
MW-11	04/16/16	5680.33	19.55	ND		5660.78
MW-11	10/15/16	5680.33	20.37	ND		5659.96
MW-11	06/08/17	5680.33	19.47	ND		5660.86
MW-11	11/11/17	5680.33	20.12	ND		5660.21
MW-12	11/24/15	5676.34	16.35	ND		5659.99
MW-12	04/16/16	5676.34	15.84	ND		5660.50
MW-12	10/15/16	5676.34	16.65	ND		5659.69
MW-12	06/08/17	5676.34	15.76	ND		5660.58
MW-12	11/11/17	5676.34	16.39	ND		5659.95
MW-13	11/24/15	5681.64	21.58	ND		5660.06
MW-13	04/16/16	5681.64	22.58	ND		5660.57
MW-13	10/15/16	5681.64	23.58	ND		5659.76
MW-13	06/08/17	5681.64	24.58	ND		5660.67
MW-13	11/11/17	5681.64	25.58	ND		5660.02
MW-14	11/24/15	5685.68	36.33	ND		5649.35
MW-14	04/16/16	5685.68	24.41	ND		5661.27
MW-14	10/15/16	5685.68	25.04	ND		5660.64
MW-14	06/08/17	5685.68	24.12	ND		5661.56
MW-14	11/11/17	5685.68	24.91	ND		5660.77

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-15	11/24/15	5683.73	22.10	ND		5661.63
MW-15	04/16/16	5683.73	21.61	ND		5662.12
MW-15	10/15/16	5683.73	22.43	ND		5661.30
MW-15	06/08/17	5683.73	21.56	ND		5662.17
MW-15	11/11/17	5683.73	22.16	ND		5661.57
MW-16	11/24/15	5679.67	18.81	ND		5660.86
MW-16	11/24/15	5679.67	18.81	ND		5660.86
MW-16	04/16/16	5679.67	18.30	ND		5661.37
MW-16	10/15/16	5679.67	19.13	ND		5660.54
MW-16	06/08/17	5679.67	18.24	ND		5661.43
MW-16	11/11/17	5679.67	18.89	ND		5660.78

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

FIGURES

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STANDARD OIL COM #1\2017 MAPS\Std_Oil_Com#1_GARM_1SA_2017.mxd

MW-12 NS
MW-4 NS
MW-16 B: 1.1 T: <5.0 E: 2.2 X: 6.2
MW-11 NS
MW-3 NS
MW-9 B: 130 T: <5.0 E: 140 X: 8
MW-1 B: 23 T: <5.0 E: 140 X: 26
MW-7 B: 5.8 T: <10 E: 340 X: 570
MW-15 B: <1.0 T: <5.0 E: <1.0 X: <5.0
MW-13 NS
MW-10 NS
MW-8 NS
MW-2 B: 11 T: <5.0 E: <1.0 X: <5.0
MW-14 NS
MW-6 NS
MW-BR
MW-5
5675
5680
5685
WILLIAMS GAS
ENTERPRISE LINE
FORMER EPC PIT EXCAVATED APPROXIMATELY 12 FEET DEEP
BLOWDOWN VALVE
SOIL PILE
SOIL PILE
T-POST
SMA BENCHMARK ELEV. 5687.12 NAD 83 NAVD 88 STATE PLANE COORDINATE SYSTEM NEW MEXICO WEST
BURLINGTON RESOURCES EXCAVATED PIT AREA (30' DEEP)
CONCRETE PAD
METER HOUSE
TANK 1 OIL STORAGE TANK
WELLHEAD
COMPRESSOR
SEPARATOR
TANK 2 COVERED STEEL TANK

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/5/2016

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- GAS — NATURAL GAS PIPELINE
- UE — UNDERGROUND ELECTRIC LINE
- BENCHMARK
- GAS VALVE
- MONITORING WELL
- OTHER MONITORING WELL
- RIG ANCHOR

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

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

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 30 60

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

TITLE:

GROUNDWATER ANALYTICAL RESULTS JUNE 8, 2017

PROJECT:

STANDARD OIL COM #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 1

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STANDARD OIL COM #1\2017 MAPS\Std_Oil_Com#1_GECM_1SA_2017.mxd

MW-12 5660.58
MW-4 5660.98
MW-11 5660.86
MW-3 5661.04
MW-9 5661.24
MW-16 5661.43
MW-5
MW-1 5661.77
MW-7 5661.94
MW-15 5662.17
MW-13 5660.67
MW-10 5661.12
MW-8 5661.36
MW-2 5662.09
MW-14 5661.56
MW-6 5663.02
MW-BR

5661
5661.5
5662
5662.5
5675
5680
5685

WILLIAMS GAS
ENTERPRISE LINE
FORMER EPC PIT
BLOWDOWN VALVE
SOIL PILE
T-POST
SMA BENCHMARK
ELEV. 5687.12
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST
BURLINGTON RESOURCES
EXCAVATED PIT AREA (30' DEEP)
CONCRETE PAD
METER HOUSE
WELLHEAD
TANK 1
OIL STORAGE TANK
COMPRESSOR
SEPARATOR
TANK 2
COVERED STEEL TANK

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/5/2016.

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- NATURAL GAS PIPELINE
- UNDERGROUND ELECTRIC LINE
- BENCHMARK
- GAS VALVE
- MONITORING WELL
- OTHER MONITORING WELL
- RIG ANCHOR

NOTES:

5662.44 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

5661.5 GROUNDWATER LEVEL ELEVATION (DASHED WHERE INFERRED FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

NO MEASUREABLE FREE PRODUCT WAS DETECTED.

N

SCALE IN FEET
0 30 60

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

TITLE:

GROUNDWATER ELEVATION MAP
JUNE 8, 2017

PROJECT:

STANDARD OIL COM #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STANDARD OIL COM #1\2017 MAPS\Std_Oil_Com#1_GARM_2SA_2017.mxd

MW-12 NS
MW-12
MW-4 NS
MW-4
5675
MW-16 B: <1.0 T: <1.0 E: <1.0 X: <10
MW-16
MW-5
WILLIAMS GAS
ENTERPRISE LINE
MW-11 NS
MW-11
MW-3 NS
MW-3
FORME APPROX
MW-9 B: 120 T: <1.0 E: 86 X: <10
MW-9
PIT EXCAVATED Y 12 FEET DEEP
MW-1 B: 4.4 T: <1.0 E: 58 X: <10
MW-1
MW-7 B: <2.0 T: <2.0 E: 200 X: 94
MW-7
MW-15 B: <1.0 T: <1.0 E: <1.0 X: <10
MW-15
5680
SOIL PILE
5685
BLOWDOWN VALVE
MW-2 B: 54 T: <1.0 E: <1.0 X: <10
MW-2
MW-13 NS
MW-13
MW-10 NS
MW-10
MW-8 NS
MW-8
T-POST
SOIL PILE
MW-14 NS
MW-14
SMA BENCHMARK
ELEV. 5687.12
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST
MW-6 NS
MW-6
CONCRETE PAD
TANK 1
OIL STORAGE TANK
WELLHEAD
BURLINGTON RESOURCES
EXCAVATED PIT AREA (30' DEEP)
MW-BR
METER HOUSE
COMPRESSOR
SEPARATOR
TANK 2
COVERED STEEL TANK

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/5/2016

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- GAS — NATURAL GAS PIPELINE
- UE — UNDERGROUND ELECTRIC LINE
- BENCHMARK
- GAS VALVE
- MONITORING WELL
- OTHER MONITORING WELL
- RIG ANCHOR

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

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

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 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	12/15/2017	SLG	SLG	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 11, 2017

PROJECT:
STANDARD OIL COM #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 3

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\STANDARD OIL COM #1\2017 MAPS\Std_Oil_Com#1_GECM_2SA_2017.mxd

MW-4
NOT MEASURED
MW-4
MW-12
5659.95
MW-12
MW-11
5660.21
MW-11
MW-3
5660.39
MW-3
MW-9
5660.63
MW-9
MW-16
5660.78
MW-16
MW-5
MW-1
5661.16
MW-1
MW-7
5661.35
MW-7
MW-15
5661.57
MW-15
MW-13
5660.02
MW-13
MW-10
5660.42
MW-10
MW-8
5660.70
MW-8
MW-2
5661.49
MW-2
MW-14
5660.77
MW-14
MW-6
5662.42
MW-6
MW-BR
5660
5660.5
5661
5661.5
5662
5675
5680
5685
FORMER EPC PIT
SOIL PILE
BLOWDOWN VALVE
WILLIAMS GAS
ENTERPRISE LINE
T-POST
SMA BENCHMARK
ELEV. 5687.12
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST
TANK 1
OIL STORAGE TANK
WELLHEAD
BURLINGTON RESOURCES
EXCAVATED PIT AREA (30' DEEP)
CONCRETE PAD
METER HOUSE
COMPRESSOR
SEPARATOR
TANK 2
COVERED STEEL TANK
AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/5/2016.

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- GAS — NATURAL GAS PIPELINE
- UE — UNDERGROUND ELECTRIC LINE
- BENCHMARK
- GAS VALVE
- MONITORING WELL
- OTHER MONITORING WELL
- RIG ANCHOR

NOTES:

- 5662.44 — GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL
- 5661.5 — GROUNDWATER LEVEL ELEVATION (DASHED WHERE INFERRED FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF APPARENT GROUNDWATER FLOW

NO MEASUREABLE FREE PRODUCT WAS DETECTED.

N

SCALE IN FEET
0 30 60

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

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 11, 2017

PROJECT:

STANDARD OIL COM #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

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Figure No.: **4**

APPENDICES

APPENDIX A – NOTIFICATIONS OF GROUNDWATER SAMPLING ACTIVITIES

APPENDIX B – WASTE DISPOSAL DOCUMENTATION

APPENDIX C – JUNE 8, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT
NOVEMBER 11, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT

APPENDIX A

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 B

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. 700071

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

DATE 11-14-17

DEL. TKT#.

GENERATOR: El Paso

BILL TO: El Paso

HAULING CO. Stanteo

DRIVER: Sam Spring
(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	1	Fogelson 4-1	1	75			75 17 NOV 14	2:31 pm
2		~~State Gas Com~~, Knight JF Bell, ~~Lat L-40~~, ~~Std Oil Com~~						
3		~~Sandoval~~, GCU 124E ~~J Fed 4~~, ~~J Fed 6~~						
4		Fields A7A, GCU 142E Fogelson, Canada Mesa, K-27						
5		Miles Fed						

I, _____ 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 _____

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APPENDIX C

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: 400-139108-1
Client Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1
Revision: 1

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

Attn: Ms. Sarah Gardner

Carol M Webb

Authorized for release by:
6/27/2017 7:05:34 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: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Job ID: 400-139108-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-139108-1

Comments
No additional comments.

Receipt
The samples were received on 6/10/2017 12:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions
The project name was updated to show correct verbage: Com#1

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 CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: MW-1 — Lab Sample ID: 400-139108-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	23		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	140		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	26		5.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-139108-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 400-139108-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	5.8		2.0		ug/L	2		8021B	Total/NA
Ethylbenzene	340		2.0		ug/L	2		8021B	Total/NA
Xylenes, Total	570		10		ug/L	2		8021B	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 400-139108-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	130		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	140		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	8.0		5.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 400-139108-5

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 400-139108-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	2.2		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	6.2		5.0		ug/L	1		8021B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-139108-7

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139108-1	MW-1	Water	06/08/17 14:25	06/10/17 12:00
400-139108-2	MW-2	Water	06/08/17 14:50	06/10/17 12:00
400-139108-3	MW-7	Water	06/08/17 14:20	06/10/17 12:00
400-139108-4	MW-9	Water	06/08/17 14:30	06/10/17 12:00
400-139108-5	MW-15	Water	06/08/17 14:10	06/10/17 12:00
400-139108-6	MW-16	Water	06/08/17 14:00	06/10/17 12:00
400-139108-7	TRIP BLANK	Water	06/08/17 13:40	06/10/17 12:00

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: MW-1
Date Collected: 06/08/17 14:25
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**23**		1.0		ug/L			06/15/17 19:45	1
Ethylbenzene	**140**		1.0		ug/L			06/15/17 19:45	1
Toluene	<5.0		5.0		ug/L			06/15/17 19:45	1
Xylenes, Total	**26**		5.0		ug/L			06/15/17 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*78 - 124*		*06/15/17 19:45*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: MW-2
Date Collected: 06/08/17 14:50
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11**		1.0		ug/L			06/15/17 20:20	1
Ethylbenzene	<1.0		1.0		ug/L			06/15/17 20:20	1
Toluene	<5.0		5.0		ug/L			06/15/17 20:20	1
Xylenes, Total	<5.0		5.0		ug/L			06/15/17 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*		*06/15/17 20:20*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: MW-7
Date Collected: 06/08/17 14:20
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.8**		2.0		ug/L			06/15/17 20:56	2
Ethylbenzene	**340**		2.0		ug/L			06/15/17 20:56	2
Toluene	<10		10		ug/L			06/15/17 20:56	2
Xylenes, Total	**570**		10		ug/L			06/15/17 20:56	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*105*		*78 - 124*		*06/15/17 20:56*	*2*

Client Sample ID: MW-9
Date Collected: 06/08/17 14:30
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**130**		1.0		ug/L			06/15/17 21:31	1
Ethylbenzene	**140**		1.0		ug/L			06/15/17 21:31	1
Toluene	<5.0		5.0		ug/L			06/15/17 21:31	1
Xylenes, Total	**8.0**		5.0		ug/L			06/15/17 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/15/17 21:31*	*1*

Client Sample ID: MW-15
Date Collected: 06/08/17 14:10
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-5
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			06/15/17 22:07	1
Ethylbenzene	<1.0		1.0		ug/L			06/15/17 22:07	1
Toluene	<5.0		5.0		ug/L			06/15/17 22:07	1
Xylenes, Total	<5.0		5.0		ug/L			06/15/17 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*78 - 124*		*06/15/17 22:07*	*1*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: MW-16
Date Collected: 06/08/17 14:00
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**		1.0		ug/L			06/15/17 22:42	1
Ethylbenzene	**2.2**		1.0		ug/L			06/15/17 22:42	1
Toluene	<5.0		5.0		ug/L			06/15/17 22:42	1
Xylenes, Total	**6.2**		5.0		ug/L			06/15/17 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*		*06/15/17 22:42*	*1*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: TRIP BLANK
Date Collected: 06/08/17 13:40
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-7
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			06/15/17 23:17	1
Ethylbenzene	<1.0		1.0		ug/L			06/15/17 23:17	1
Toluene	<5.0		5.0		ug/L			06/15/17 23:17	1
Xylenes, Total	<5.0		5.0		ug/L			06/15/17 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*		*06/15/17 23:17*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

GC VOA

Analysis Batch: 356986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139108-1	MW-1	Total/NA	Water	8021B	
400-139108-2	MW-2	Total/NA	Water	8021B	
400-139108-3	MW-7	Total/NA	Water	8021B	
400-139108-4	MW-9	Total/NA	Water	8021B	
400-139108-5	MW-15	Total/NA	Water	8021B	
400-139108-6	MW-16	Total/NA	Water	8021B	
400-139108-7	TRIP BLANK	Total/NA	Water	8021B	
MB 400-356986/4	Method Blank	Total/NA	Water	8021B	
LCS 400-356986/1002	Lab Control Sample	Total/NA	Water	8021B	
400-139102-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
400-139102-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-356986/4
Matrix: Water
Analysis Batch: 356986

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 13:13	1
Ethylbenzene	<1.0		1.0		ug/L			06/15/17 13:13	1
Toluene	<5.0		5.0		ug/L			06/15/17 13:13	1
Xylenes, Total	<5.0		5.0		ug/L			06/15/17 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*78 - 124*		*06/15/17 13:13*	*1*

Lab Sample ID: LCS 400-356986/1002
Matrix: Water
Analysis Batch: 356986

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	44.0		ug/L		88	85 - 115		
Ethylbenzene			50.0	45.1		ug/L		90	85 - 115		
Toluene			50.0	45.2		ug/L		90	85 - 115		
Xylenes, Total			150	135		ug/L		90	85 - 115		

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

Lab Sample ID: 400-139102-A-1 MS
Matrix: Water
Analysis Batch: 356986

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	<1.0		50.0	54.7		ug/L		109	44 - 150		
Ethylbenzene	<1.0		50.0	56.2		ug/L		112	70 - 142		
Toluene	<5.0		50.0	55.5		ug/L		111	69 - 136		
Xylenes, Total	<5.0		150	169		ug/L		113	68 - 142		

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

Lab Sample ID: 400-139102-A-1 MSD
Matrix: Water
Analysis Batch: 356986

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	<1.0		50.0	60.9		ug/L		122	44 - 150	11	16
Ethylbenzene	<1.0		50.0	61.9		ug/L		124	70 - 142	10	16
Toluene	<5.0		50.0	61.5		ug/L		123	69 - 136	10	16
Xylenes, Total	<5.0		150	186		ug/L		124	68 - 142	9	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*103*		*78 - 124*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: MW-1
Date Collected: 06/08/17 14:25
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-1
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	356986	06/15/17 19:45	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-2
Date Collected: 06/08/17 14:50
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-2
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	356986	06/15/17 20:20	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-7
Date Collected: 06/08/17 14:20
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-3
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		2	5 mL	5 mL	356986	06/15/17 20:56	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-9
Date Collected: 06/08/17 14:30
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-4
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		1	5 mL	5 mL	356986	06/15/17 21:31	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-15
Date Collected: 06/08/17 14:10
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-5
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	356986	06/15/17 22:07	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Client Sample ID: MW-16
Date Collected: 06/08/17 14:00
Date Received: 06/10/17 12:00

Lab Sample ID: 400-139108-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356986	06/15/17 22:42	GRK	TAL PEN
	Instrument ID: CH_JOAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-139108-7

Date Collected: 06/08/17 13:40

Matrix: Water

Date Received: 06/10/17 12:00

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	356986	06/15/17 23:17	GRK	TAL PEN
	Instrument ID: CH_JOAN									

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: 400-139108-1
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
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	06-30-18

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGPCompanyLLC-Standard Oil Com#1

TestAmerica Job ID: 400-139108-1

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: 400-65871-26946.1
Client Contact: Ms. Sarah Gardner	Phone: 303 291 2239	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc				Job #:
Address: 1560 Broadway Suite 1800	Due Date Requested:			
City: Denver	TAT Requested (days): Standard			
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			
Email: sarah.gardner@mwhglobal.com	WO #:			
Project Name: Standard Oil Com #1	Project #: 40005479			
Site: Standard Oil Com #1	SSOW#:			

Analysis Requested

400-139108 COC

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX 8021	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-1	June 8, 2017	1425	G	W	N	N	2	2	
MW-2	June 8, 2017	1450	G	W	N	N	2	2	
MW-7	June 8, 2017	1420	G	W	N	N	2	2	
MW-9	June 8, 2017	1430	G	W	N	N	2	2	
MW-15	June 8, 2017	1410	G	W	N	N	2	2	
MW-16	June 8, 2017	1400	G	W	N	N	2	2	
TRIP BLANK	June 8, 2017	1340	—	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
1	[signature]	6/8/2017 1700	Stantec	[signature]	6/10/17 1200	TA-PS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 2.8° C IR2

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-139108-1

Login Number: 139108
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8°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: 400-145970-1
Client Project/Site: El Paso CGP Company - Standard Oil Com 1

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

Attn: Ms. Sarah Gardner

Madonna Myers

Authorized for release by:
11/20/2017 12:15:48 PM
Madonna Myers, Project Manager II
(615)796-1870
madonna.myers@testamericainc.com

Designee for

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

Table of Contents

Glossary

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

Job ID: 400-145970-1

Laboratory: TestAmerica Pensacola

Narrative

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Job Narrative
400-145970-1

Comments
No additional comments.

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

Receipt Exceptions

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

GC/MS VOA
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 - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Client Sample ID: MW-7 — Lab Sample ID: 400-145970-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	200		2.0		ug/L	2		8260C	Total/NA
Xylenes, Total	94		20		ug/L	2		8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-145970-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	54		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 400-145970-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	4.4		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	58		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 400-145970-4

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 400-145970-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	120		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	86		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 400-145970-6

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-145970-7

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-145970-1	MW-7	Water	11/11/17 12:43	11/14/17 09:01
400-145970-2	MW-2	Water	11/11/17 12:37	11/14/17 09:01
400-145970-3	MW-1	Water	11/11/17 12:32	11/14/17 09:01
400-145970-4	MW-16	Water	11/11/17 12:25	11/14/17 09:01
400-145970-5	MW-9	Water	11/11/17 12:18	11/14/17 09:01
400-145970-6	MW-15	Water	11/11/17 12:09	11/14/17 09:01
400-145970-7	TRIP BLANK	Water	11/11/17 12:00	11/14/17 09:01

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Client Sample ID: MW-7
Date Collected: 11/11/17 12:43
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.0		2.0		ug/L			11/18/17 16:23	2
Toluene	<2.0		2.0		ug/L			11/18/17 16:23	2
Ethylbenzene	**200**		2.0		ug/L			11/18/17 16:23	2
Xylenes, Total	**94**		20		ug/L			11/18/17 16:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*107*		*81 - 121*		*11/18/17 16:23*	*2*
4-Bromofluorobenzene	*99*		*78 - 118*		*11/18/17 16:23*	*2*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/18/17 16:23*	*2*

Client Sample ID: MW-2
Date Collected: 11/11/17 12:37
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**54**		1.0		ug/L			11/18/17 12:41	1
Toluene	<1.0		1.0		ug/L			11/18/17 12:41	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/17 12:41	1
Xylenes, Total	<10		10		ug/L			11/18/17 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*81 - 121*		*11/18/17 12:41*	*1*
4-Bromofluorobenzene	*100*		*78 - 118*		*11/18/17 12:41*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/18/17 12:41*	*1*

Client Sample ID: MW-1
Date Collected: 11/11/17 12:32
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-3
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.4**		1.0		ug/L			11/18/17 13:05	1
Toluene	<1.0		1.0		ug/L			11/18/17 13:05	1
Ethylbenzene	**58**		1.0		ug/L			11/18/17 13:05	1
Xylenes, Total	<10		10		ug/L			11/18/17 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*81 - 121*		*11/18/17 13:05*	*1*
4-Bromofluorobenzene	*104*		*78 - 118*		*11/18/17 13:05*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/18/17 13:05*	*1*

Client Sample ID: MW-16
Date Collected: 11/11/17 12:25
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-4
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			11/18/17 13:30	1
Toluene	<1.0		1.0		ug/L			11/18/17 13:30	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/17 13:30	1
Xylenes, Total	<10		10		ug/L			11/18/17 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*81 - 121*		*11/18/17 13:30*	*1*
4-Bromofluorobenzene	*101*		*78 - 118*		*11/18/17 13:30*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/18/17 13:30*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Client Sample ID: MW-9
Date Collected: 11/11/17 12:18
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-5
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**120**		1.0		ug/L			11/18/17 13:54	1
Toluene	<1.0		1.0		ug/L			11/18/17 13:54	1
Ethylbenzene	**86**		1.0		ug/L			11/18/17 13:54	1
Xylenes, Total	<10		10		ug/L			11/18/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*108*		*81 - 121*		*11/18/17 13:54*	*1*
4-Bromofluorobenzene	*102*		*78 - 118*		*11/18/17 13:54*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/18/17 13:54*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Client Sample ID: MW-15
Date Collected: 11/11/17 12:09
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-6
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/17 14:19	1
Toluene	<1.0		1.0		ug/L			11/18/17 14:19	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/17 14:19	1
Xylenes, Total	<10		10		ug/L			11/18/17 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*81 - 121*		*11/18/17 14:19*	*1*
4-Bromofluorobenzene	*103*		*78 - 118*		*11/18/17 14:19*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/18/17 14:19*	*1*

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Client Sample ID: TRIP BLANK
Date Collected: 11/11/17 12:00
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-7
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			11/18/17 09:24	1
Toluene	<1.0		1.0		ug/L			11/18/17 09:24	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/17 09:24	1
Xylenes, Total	<10		10		ug/L			11/18/17 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*109*		*81 - 121*		*11/18/17 09:24*	*1*
4-Bromofluorobenzene	*96*		*78 - 118*		*11/18/17 09:24*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/18/17 09:24*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

GC/MS VOA

Analysis Batch: 376472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145970-1	MW-7	Total/NA	Water	8260C	
400-145970-2	MW-2	Total/NA	Water	8260C	
400-145970-3	MW-1	Total/NA	Water	8260C	
400-145970-4	MW-16	Total/NA	Water	8260C	
400-145970-5	MW-9	Total/NA	Water	8260C	
400-145970-6	MW-15	Total/NA	Water	8260C	
400-145970-7	TRIP BLANK	Total/NA	Water	8260C	
MB 400-376472/4	Method Blank	Total/NA	Water	8260C	
LCS 400-376472/1002	Lab Control Sample	Total/NA	Water	8260C	
400-145976-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-145976-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

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

Lab Sample ID: MB 400-376472/4
Matrix: Water
Analysis Batch: 376472

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			11/18/17 09:00	1
Toluene	<1.0		1.0		ug/L			11/18/17 09:00	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/17 09:00	1
Xylenes, Total	<10		10		ug/L			11/18/17 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*81 - 121*		*11/18/17 09:00*	*1*
4-Bromofluorobenzene	*100*		*78 - 118*		*11/18/17 09:00*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/18/17 09:00*	*1*

Lab Sample ID: LCS 400-376472/1002
Matrix: Water
Analysis Batch: 376472

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	50.9		ug/L		102	70 - 130		
Toluene			50.0	43.2		ug/L		86	70 - 130		
Ethylbenzene			50.0	43.7		ug/L		87	70 - 130		
Xylenes, Total			100	87.5		ug/L		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*106*		*81 - 121*
4-Bromofluorobenzene	*104*		*78 - 118*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 400-145976-A-3 MS
Matrix: Water
Analysis Batch: 376472

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	53		50.0	106		ug/L		107	56 - 142		
Toluene	<1.0		50.0	43.0		ug/L		86	65 - 130		
Ethylbenzene	3.4		50.0	45.7		ug/L		85	58 - 131		
Xylenes, Total	<10		100	84.2		ug/L		84	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane	*111*		*81 - 121*
4-Bromofluorobenzene	*103*		*78 - 118*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 400-145976-A-3 MSD
Matrix: Water
Analysis Batch: 376472

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	53		50.0	101		ug/L		97	56 - 142	5	30
Toluene	<1.0		50.0	38.3		ug/L		77	65 - 130	12	30

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

Lab Sample ID: 400-145976-A-3 MSD
Matrix: Water
Analysis Batch: 376472

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
Ethylbenzene	3.4		50.0	39.3		ug/L		72	58 - 131	15	30
Xylenes, Total	<10		100	72.6		ug/L		73	59 - 130	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane	*107*		*81 - 121*
4-Bromofluorobenzene	*105*		*78 - 118*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Client Sample ID: MW-7
Date Collected: 11/11/17 12:43
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-1
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	376472	11/18/17 16:23	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-2
Date Collected: 11/11/17 12:37
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-2
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	376472	11/18/17 12:41	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-1
Date Collected: 11/11/17 12:32
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-3
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	376472	11/18/17 13:05	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-16
Date Collected: 11/11/17 12:25
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-4
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	376472	11/18/17 13:30	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-9
Date Collected: 11/11/17 12:18
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-5
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	376472	11/18/17 13:54	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-15
Date Collected: 11/11/17 12:09
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-6
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	376472	11/18/17 14:19	WPD	TAL PEN
	Instrument ID: CH_TAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

Client Sample ID: TRIP BLANK

Date Collected: 11/11/17 12:00
Date Received: 11/14/17 09:01

Lab Sample ID: 400-145970-7

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	376472	11/18/17 09:24	WPD	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: 400-145970-1
Project/Site: El Paso CGP Company - Standard Oil Com 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 - Standard Oil Com 1

TestAmerica Job ID: 400-145970-1

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

00-145970 COC

Client Information	Sampler: Daniel Babcock	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-69067-28001.1
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			Preservation Codes:
City: Denver	TAT Requested (days): 10 Days Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			Other:
Email: sarah.gardner@mwhglobal.com	~~WO#:~~ ARF W-ERG-STN-05-17-17-SLS-17			
Project Name: Standard Oil Com #1 Nov 2017	Project #: 40005479 Standard oil com#1			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8021B - BTEX 8021	Special Instructions/Note:
MW-7	11/11/17	1243	G	W	2	Per ARF
MW-2		1237	G	W	2	
MW-1		1232	G	W	2	
MW-16		1225	G	W	2	
MW-9		1218	G	W	2	
MW-15		1209	G	W	2	
Trip Blank	11/11/17	1200	—	—	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
1	Daniel Babcock	11/13/17 1100	Stantec	Fedex		Fedex
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/14/17 0901	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0°C IR7

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-145970-1

Login Number: 145970
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°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	