

2018 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 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 and has not been detected since. Currently, groundwater sampling is conducted on a semi-annual basis.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec Consulting Services Inc. (Stantec) provided field work notifications via email to the NMOCD on May 9, 2018 and October 23, 2018, prior to initiating groundwater sampling activities at the Site. Copies of the 2018 NMOCD notifications are provided in Appendix A. On May 15, 2018, water levels were gauged at MW-1 through MW-4 and MW-6 through MW-16. On May 15, 2018, 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.

On October 27, 2018, water levels were gauged at MW-1 through MW-3 and MW-6 through MW-16. Monitoring well MW-4 had an obstruction; therefore, no water level measurement was collected on that date. On November 2, 2018, Stantec returned to the Site to remove a dense root mass from MW-4.

On October 27, 2018, groundwater samples were collected from selected monitoring wells (MW-1, MW-2, MW-3, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16) using HydraSleeves. After removal of the root mass, a groundwater sample was collected from MW-4 on November 2, 2018 using the in-place HydraSleeve.

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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). One laboratory supplied trip blank was also collected during each groundwater sampling event and submitted for analysis of BTEX constituents. As requested by the NMOCD on March 20, 2018, EPCGP began collecting blind field duplicates of groundwater samples, as clarified in a March 21, 2018 electronic mail message to NMOCD. The BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260. 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 2018 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).
- Monitoring wells MW-3, MW-4, MW-6, MW-8, MW-10, MW-11, MW-12, MW-13, and MW-14 were not selected to be sampled for the May 2018 semi-annual monitoring event.
- Free product was not observed in 2018 sampling events.
- Groundwater samples collected in 2018 from MW-2, MW-3, MW-6, MW-8, MW-9, MW-10, MW-11, and MW-12 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 2018 were either below the NMWQCC standard for benzene or not detected.
- Concentrations of toluene were not detected in the Site monitoring wells sampled in 2018.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in the Site monitoring wells sampled in 2018.
- The groundwater sample collected in October 2018 from MW-11 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. The remaining groundwater samples collected in 2018 were either below the NMWQCC standard or not detected.

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- A field duplicate was collected from MW-1 for the May 2018 semi-annual monitoring event. For the October 2018 monitoring event, a field duplicate was collected from MW-7. No significant difference was noted between the primary and duplicate sample results for each sampling event.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2018 groundwater monitoring events.

PLANNED FUTURE ACTIVITIES

As agreed during the February 6, 2019 meeting between NMOCD, EPCGP, and Stantec, semi-annual groundwater monitoring will continue for 2019. Groundwater samples will be collected from monitoring wells not containing free product. A field duplicate and trip blank will also be collected during each groundwater sampling event. The groundwater samples, field duplicate and trip blank will be analyzed for BTEX constituents using EPA Method 8260. No additional activities are planned for 2019 at this time. The results will be summarized in the 2019 Annual Report for the Site, submitted in early 2020.

EPCGP noted that there appears to be a separate release near MW-11, and NMOCD stated they would meet with the current operator and discuss internally. EPCGP will await NMOCD feedback on the outcome of their operator meeting and subsequent discussions before determining what, if any, additional work may be required.

TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

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

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	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
MW-1	05/15/18	4.3	<1.0	4.3	<10
DP-01(MW-1)*	05/15/18	4.6	<1.0	4.7	<10
MW-1	10/27/18	2.8	<1.0	5.3	<10
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-2	05/15/18	3.4	<1.0	<1.0	<10
MW-2	10/27/18	19	<1.0	<1.0	<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-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-3	10/27/18	1000	<2.0	180	68
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
MW-4	11/02/18	<1.0	<1.0	44	35
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	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	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-5 plugged and abandoned on 11-13-15					

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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-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-6	10/27/18	28	<1.0	2.1	<10
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-7	05/15/18	<2.0	<2.0	85	260
MW-7	10/27/18	<1.0	<1.0	35	85
DUP-01(MW-7)*	10/27/18	<1.0	<1.0	35	86
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-8	10/27/18	41	<1.0	2.3	<10
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
MW-9	05/15/18	65	<1.0	65	<10
MW-9	10/27/18	82	<1.0	97	<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-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-10	10/27/18	520	<1.0	25	<10
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-11	10/27/18	2400	<10	550	2900
MW-12	11/24/15	260	8.9	320	2000
MW-12	04/16/16	210	<5.0	210	46
MW-12	10/27/18	37	<1.0	<1.0	<10
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-13	10/27/18	<1.0	<1.0	<1.0	<10
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-14	10/27/18	<1.0	<1.0	<1.0	<10
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-15	05/15/18	<1.0	<1.0	<1.0	<10
MW-15	10/27/18	<1.0	<1.0	<1.0	<10

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-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
MW-16	05/15/18	<1.0	<1.0	<1.0	<10
MW-16	10/27/18	<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).

*Field Duplicate results presented immediately primary sample result

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

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	09/11/13	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
MW-1	05/15/18	5681.65	19.85	ND		5661.80
MW-1	10/27/18	5681.65	20.53	ND		5661.12
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
MW-2	05/15/18	5688.83	26.73	ND		5662.10

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-2	10/27/18	5688.83	27.40	ND		5661.43
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
MW-3	05/15/18	5681.69	20.69	ND		5661.00
MW-3	10/27/18	5681.69	21.40	ND		5660.29
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

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	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
MW-4	05/15/18	5677.86	NM	NM		NM
MW-4	11/02/18	5677.86	NM	NM		NM
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						
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

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	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-6	05/15/18	5689.93	26.90	ND		5663.03
MW-6	10/27/18	5689.93	27.48	ND		5662.45
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-7	05/15/18	5682.68	20.73	ND		5661.95
MW-7	10/27/18	5682.68	21.38	ND		5661.30
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-8	05/15/18	5688.59	27.29	ND		5661.30
MW-8	10/27/18	5688.59	27.97	ND		5660.62
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-9	05/15/18	5682.09	20.86	ND		5661.23
MW-9	10/27/18	5682.09	21.55	ND		5660.54
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-10	05/15/18	5688.16	27.12	ND		5661.04
MW-10	10/27/18	5688.16	27.84	ND		5660.32
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-11	05/15/18	5680.33	19.53	ND		5660.80
MW-11	10/27/18	5680.33	20.23	ND		5660.10
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-12	05/15/18	5676.34	15.83	ND		5660.51
MW-12	10/27/18	5676.34	16.53	ND		5659.81
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-13	05/15/18	5681.64	26.58	ND		5660.59

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-13	10/27/18	5681.64	27.58	ND		5659.89
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
MW-14	05/15/18	5685.68	24.41	ND		5661.27
MW-14	10/27/18	5685.68	24.99	ND		5660.69
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-15	05/15/18	5683.73	21.52	ND		5662.21
MW-15	10/27/18	5683.73	22.18	ND		5661.55
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
MW-16	05/15/18	5679.67	18.25	ND		5661.42
MW-16	10/27/18	5679.67	18.95	ND		5660.72

Notes:

"ft" = feet

"TOC" = Top of casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

FIGURES

FIGURE 1: MAY 15, 2018 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 2: MAY 15, 2018 GROUNDWATER ELEVATION MAP

FIGURE 3: OCTOBER 27, 2018 AND NOVEMBER 2, 2018 GROUNDWATER
ANALYTICAL RESULTS MAP

FIGURE 4: OCTOBER 27, 2018 GROUNDWATER ELEVATION MAP



5795

APPROX. GROUND SURFACE
CONTOUR AND ELEVATION, FEET

----- ACCESS ROAD

—X— FENCE

----- FORMER PIT

—GAS— NATURAL GAS PIPELINE

—UE— UNDERGROUND ELECTRIC LINE

STATE LAND OFFICE WATER
EASEMENT BOUNDARY

▲ BENCHMARK

⊗ GAS VALVE

⊕ MONITORING WELL

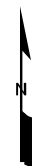
⊕ OTHER MONITORING WELL

⊗ RIG ANCHOR

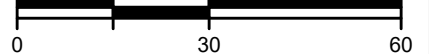
DP = FIELD DUPLICATE SAMPLE

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

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



SCALE IN FEET



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/27/2019	SLG	SLG	SRV

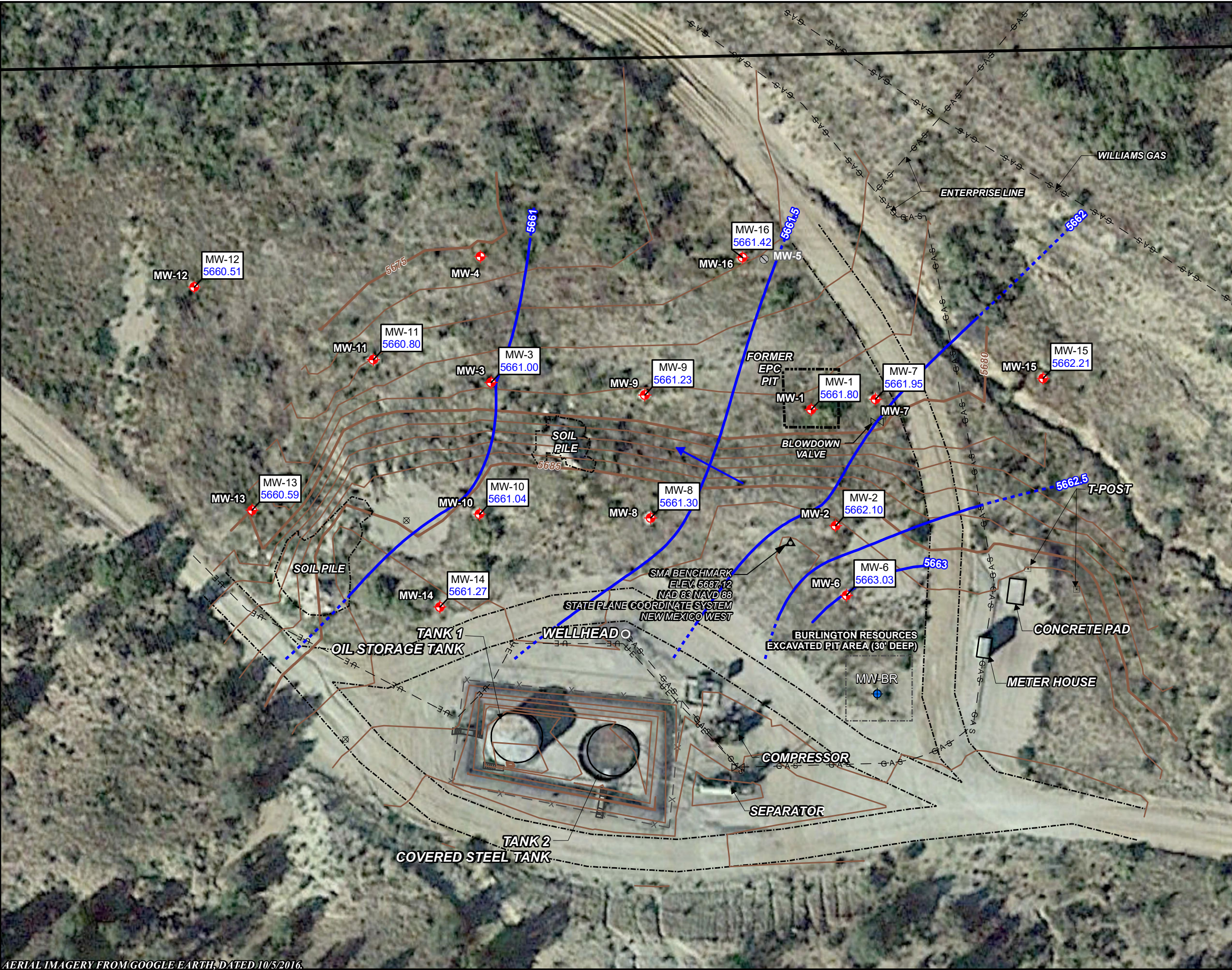
TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 15, 2018

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



Figure No.:



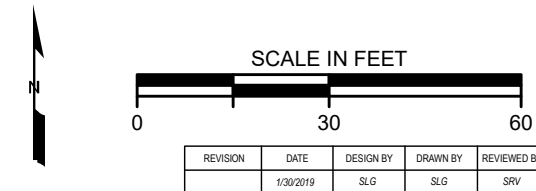
LEGEND:

- 5795 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- NATURAL GAS PIPELINE
- UNDERGROUND ELECTRIC LINE
- STATE LAND OFFICE WATER EASEMENT BOUNDARY
- 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.



TITLE: **GROUNDWATER ELEVATION MAP**
MAY 15, 2018

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



Figure No.:

2



LEGEND:

- 5795** APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- x- FENCE
- FORMER PIT
- GAS- NATURAL GAS PIPELINE
- UE- UNDERGROUND ELECTRIC LINE
- STATE LAND OFFICE WATER EASEMENT BOUNDARY
- ▲ BENCHMARK
- ⊠ GAS VALVE
- MONITORING WELL
- ⊕ OTHER MONITORING WELL
- ⊗ RIG ANCHOR

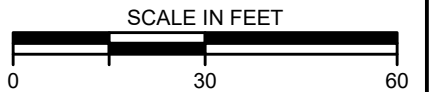
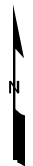
NOTES:

DUP = FIELD DUPLICATE SAMPLE
MW-4 GROUNDWATER SAMPLE WAS COLLECTED ON NOVEMBER 2, 2018. THE REMAINING GROUNDWATER SAMPLES WERE COLLECTED ON OCTOBER 27, 2018.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** 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



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/27/2019	SLG	SLG	SRV

TITLE:

**GROUNDWATER ANALYTICAL RESULTS
OCTOBER 27, 2018 AND NOVEMBER 2, 2018**

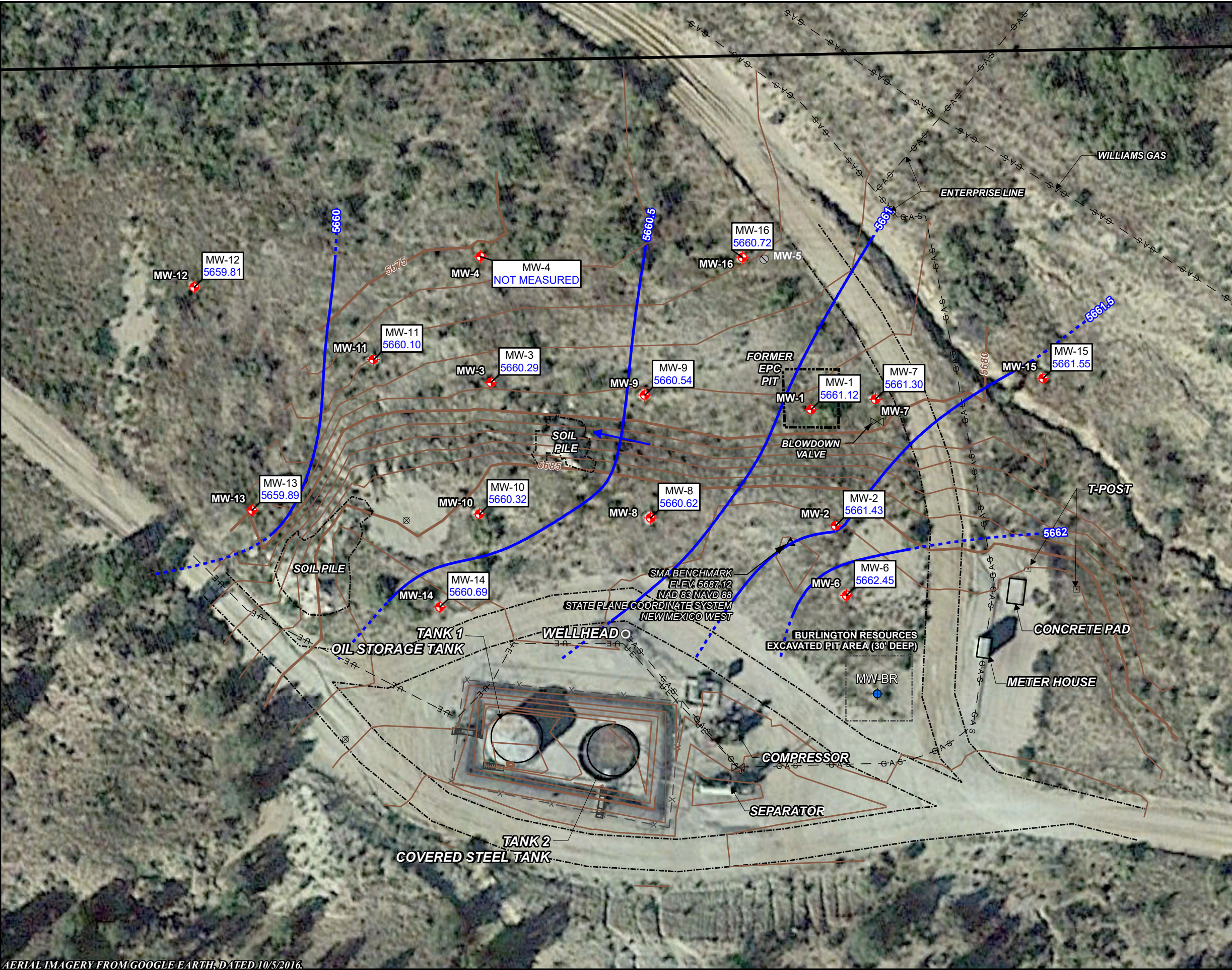
PROJECT:

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



Figure No.:

3



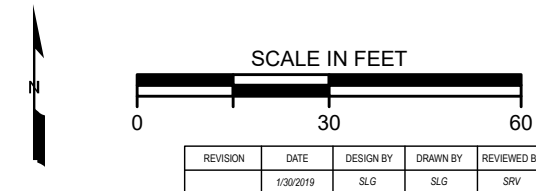
LEGEND:

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

NOTES:

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

NO MEASUREABLE FREE PRODUCT WAS DETECTED.



TITLE: **GROUNDWATER ELEVATION MAP**
OCOTBER 27, 2018

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



Figure No.:

4

APPENDICES

APPENDIX A – NOTIFICATIONS OF GROUNDWATER SAMPLING ACTIVITIES

APPENDIX B – WASTE DISPOSAL DOCUMENTATION

APPENDIX C – MAY 15, 2018 GROUNDWATER SAMPLING ANALYTICAL REPORT
OCTOBER 27, 2018 GROUNDWATER SAMPLING ANALYTICAL
REPORT
NOVEMBER 2, 2018 GROUNDWATER SAMPLING ANALYTICAL
REPORT

APPENDIX A

From: [Varsa, Steve](#)
To: [Fields, Vanessa, EMNRD](#); [Smith, Cory, EMNRD](#)
Cc: ["Bayliss, Randolph, EMNRD"](#); [Griswold, Jim, EMNRD](#); ["Wiley, Joe"](#)
Bcc: [Sarah Gardner \(sarah.gardner@stantec.com\)](#); [Varsa, Steve](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, May 09, 2018 9:23:00 AM

Vanessa and Cory -

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

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	5/15/2018
Fields A#7A	3RP-170-0	5/17/2018
Fogelson 4-1	3RP-068-0	5/17/2018
Gallegos Canyon Unit #124E	3RP-407-0	5/17/2018
GCU Com A #142E	3RP-179-0	5/17/2018
James F. Bell #1E	3RP-196-0	5/19/2019
Johnston Fed #4	3RP-201-0	5/16/2018
Johnston Fed #6A	3RP-202-0	5/16/2018
K27 LDO72	3RP-204-0	5/15/2018
Knight #1	3RP-207-0	5/19/2019
Lateral L 40 Line Drip	3RP-212-0	5/18/2018
Lat O-21 Line Drip	3RP-213-0	5/16/2018
Miles Fed #1A	3RP-223-0	5/15/2018
Sandoval GC A #1A	3RP-235-0	5/16/2018
Standard Oil Com #1	3RP-238-0	5/15/2018
State Gas Com N #1	3RP-239-0	5/18/2018

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

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

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From: [Varsa, Steve](#)
To: [Fields, Vanessa, EMNRD](#); [Smith, Cory, EMNRD](#)
Cc: ["Bayliss, Randolph, EMNRD"](#); [Griswold, Jim, EMNRD](#); ["Wiley, Joe"](#)
Bcc: [Varsa, Steve](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Tuesday, October 23, 2018 1:22:00 PM

Vanessa and Cory -

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

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	10/27/2018
Fields A#7A	3RP-170-0	10/26/2018
Fogelson 4-1	3RP-068-0	10/28/2018
Gallegos Canyon Unit #124E	3RP-407-0	10/28/2018
GCU Com A #142E	3RP-179-0	10/28/2018
James F. Bell #1E	3RP-196-0	10/29/2018
Johnston Fed #4	3RP-201-0	10/26/2018
Johnston Fed #6A	3RP-202-0	10/26/2018
K27 LDO72	3RP-204-0	10/27/2018
Knight #1	3RP-207-0	10/29/2018
Lateral L 40 Line Drip	3RP-212-0	10/31/2018
Miles Fed #1A	3RP-223-0	10/27/2018
Sandoval GC A #1A	3RP-235-0	10/28/2018
Standard Oil Com #1	3RP-238-0	10/27/2018
State Gas Com N #1	3RP-239-0	10/26/2018

Additionally, we will be at the State Gas Com N#1 site on October 30, 2018, to complete the proposed aquifer testing activities. We will be completing aquifer testing using slug-out methods, and collecting recovery measurements manually over several days.

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

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

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APPENDIX B

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002

2. Originating Site(s):

Canada Mesa #2, Johnston Federal #4, Johnston Federal #6A, K-27 LD072, Lat O-21 Line Drip, Miles Federal #1A, Sandoval GC A#1A, and Standard Oil Com #1.

3. Location of Material (Street Address, City, State or ULSTR):

Unit I, Sec. 24, T24N, R06W; Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit E, Sec. 4, T25N, R06W; Unit O, Sec. 12, R30N, R09W; Unit F, Sec. 5, T26N, R09W; Unit C, Sec. 35, T30N, R09W; and Unit N, Sec. 36, T29N, R09W, respectively.

4. Source and Description of Waste:

Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site.

Estimated Volume ¹ yd³ (bbls) Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company L.L.C. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☒ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Sarah Gardner, representative for El Paso CGP Company L.L.C. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Stantec Consulting Services

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005

Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285

Method of Treatment and/or Disposal:

☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Ben Talamante

TITLE: Employee DATE: 5-16-13

SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505 8032-3936

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.

714035

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

DATE 5-16-18

GENERATOR: El Paso

HAULING CO. Skintec

ORDERED BY: Joseph Wiley

DEL. TKT#.

BILL TO: El Paso

DRIVER: Suzanne Gardner
(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		Cranda # 2	5.25 gal.	70¢			70¢	4:50 PM
2		Johnston Fed. #4	5.25 gal.					
3		Johnston Fed. #6A	5.25 gal.					
4		K-27 L D072	5.25 gal.					
5		Lat 0-21 Line Drip	5.25 gal.					

I, Suzanne Gardner representative 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]

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.

714036

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

DATE

05/16/18

GENERATOR:

El Paso

HAULING CO.

Stantec

ORDERED BY:

Joseph Wilby

DEL. TKT#.

BILL TO:

El Paso

DRIVER:

Sarah Gardner
(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		Miles Fed #1A	525 gal	704			18 MAY 16	4:50pm
2		Sindoval ACLA #1A	525 gal					
3		Standard Oil Can #1	5.25 gal					
4								
5								

I, Sarah Gardner representative 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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002
2. Originating Site(s): Fields A#7A, State Gas Com N #1, Johnston Federal #4, Johnston Federal #6A, Canada Mesa #2, K-27 LD072, Miles Federal #1A, Standard Oil Com #1.
3. Location of Material (Street Address, City, State or ULSTR): Unit E, Sec. 34, T32N, R11W; Unit H, Sec. 16, T31N, R12W; Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit I, Sec. 24, T24N, R06W; Unit E, Sec. 4, T25N, R06W; Unit F, Sec. 5, T26N, R09W; and Unit N, Sec. 36, T29N, R09W, respectively.
4. Source and Description of Waste: Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site.
Estimated Volume ¹ yd ³ (bbls) Known Volume (to be entered by the operator at the end of the haul) yd ³ / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Joseph Wiley</u> , representative or authorized agent for <u>El Paso CGP Company L.L.C.</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only - Waste Acceptance Frequency</u> ☐ Monthly ☐ Weekly ☒ Per Load ☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Sarah Gardner</u> , representative for <u>El Paso CGP Company L.L.C.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Stantec Consulting Services

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005
Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285
Method of Treatment and/or Disposal:

☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Alonzo Johnson

TITLE:

DATE: 10-28-18

SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.:

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413

505-832-8936 or 505-334-3013

OPEN 24 Hours per Day

NO. **727110**

NMOC D PERMIT: NM -001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE 10.29.19

GENERATOR: EL Paso CGP

HAULING CO. Stantec

ORDERED BY: ~~Stantec~~ & Inc. W.

DEL. TKT#.

BILL TO: EL Paso CGP

DRIVER: Sarah Gardner
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste

☐ Produced Water

☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Fields A #7A State Gas Com N #1	1	1.0			180CT28 9:47AM	
2		Johnston Federal #4 Johnston Federal #6A						
3		Comada Mesa #1 H-27 LDO7R						
4		Miles Federal #1A Standard Oil Com #						
5								

I, Sarah Gardner representative 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 Sarah Gardner

SAN JUAN PRINTING 0818018B

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

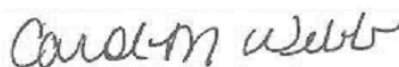
TestAmerica Job ID: 400-153927-1

Client Project/Site: ElPaso CGP Company, LLC-Stand Oil Com
#1

For:

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

Attn: Ms. Sarah Gardner



Authorized for release by:
5/29/2018 3:11:34 PM

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

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Job ID: 400-153927-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-153927-1

Comments

No additional comments.

Receipt

The samples were received on 5/18/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° 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: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-1

Lab Sample ID: 400-153927-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.3		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	4.3		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-153927-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.4		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-153927-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	85		2.0	ug/L	2		8260C	Total/NA
Xylenes, Total	260		20	ug/L	2		8260C	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-153927-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	65		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	65		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 400-153927-5

No Detections.

Client Sample ID: MW-16

Lab Sample ID: 400-153927-6

No Detections.

Client Sample ID: DP-01

Lab Sample ID: 400-153927-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.6		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	4.7		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: TB (5/15/18)

Lab Sample ID: 400-153927-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-153927-1	MW-1	Water	05/15/18 17:10	05/18/18 09:10
400-153927-2	MW-2	Water	05/15/18 17:15	05/18/18 09:10
400-153927-3	MW-7	Water	05/15/18 17:00	05/18/18 09:10
400-153927-4	MW-9	Water	05/15/18 17:20	05/18/18 09:10
400-153927-5	MW-15	Water	05/15/18 16:15	05/18/18 09:10
400-153927-6	MW-16	Water	05/15/18 16:50	05/18/18 09:10
400-153927-7	DP-01	Water	05/15/18 00:00	05/18/18 09:10
400-153927-8	TB (5/15/18)	Water	05/15/18 16:00	05/18/18 09:10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-1

Date Collected: 05/15/18 17:10

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.3		1.0	ug/L			05/24/18 20:19	1
Toluene	<1.0		1.0	ug/L			05/24/18 20:19	1
Ethylbenzene	4.3		1.0	ug/L			05/24/18 20:19	1
Xylenes, Total	<10		10	ug/L			05/24/18 20:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				05/24/18 20:19	1
Dibromofluoromethane	101		81 - 121				05/24/18 20:19	1
1,2-Dichloroethane-d4 (Surr)	85		67 - 134				05/24/18 20:19	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-2
Date Collected: 05/15/18 17:15
Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.4		1.0	ug/L			05/24/18 20:44	1
Toluene	<1.0		1.0	ug/L			05/24/18 20:44	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 20:44	1
Xylenes, Total	<10		10	ug/L			05/24/18 20:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		78 - 118				05/24/18 20:44	1
Dibromofluoromethane	100		81 - 121				05/24/18 20:44	1
1,2-Dichloroethane-d4 (Surr)	84		67 - 134				05/24/18 20:44	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-7
Date Collected: 05/15/18 17:00
Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-3
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			05/24/18 23:43	2
Toluene	<2.0		2.0	ug/L			05/24/18 23:43	2
Ethylbenzene	85		2.0	ug/L			05/24/18 23:43	2
Xylenes, Total	260		20	ug/L			05/24/18 23:43	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		78 - 118				05/24/18 23:43	2
Dibromofluoromethane	102		81 - 121				05/24/18 23:43	2
1,2-Dichloroethane-d4 (Surr)	81		67 - 134				05/24/18 23:43	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-9

Date Collected: 05/15/18 17:20

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	65		1.0	ug/L			05/24/18 21:09	1
Toluene	<1.0		1.0	ug/L			05/24/18 21:09	1
Ethylbenzene	65		1.0	ug/L			05/24/18 21:09	1
Xylenes, Total	<10		10	ug/L			05/24/18 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				05/24/18 21:09	1
Dibromofluoromethane	99		81 - 121				05/24/18 21:09	1
1,2-Dichloroethane-d4 (Surr)	85		67 - 134				05/24/18 21:09	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-15

Date Collected: 05/15/18 16:15

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-5

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			05/24/18 21:35	1
Toluene	<1.0		1.0	ug/L			05/24/18 21:35	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 21:35	1
Xylenes, Total	<10		10	ug/L			05/24/18 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118				05/24/18 21:35	1
Dibromofluoromethane	100		81 - 121				05/24/18 21:35	1
1,2-Dichloroethane-d4 (Surr)	86		67 - 134				05/24/18 21:35	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-16

Date Collected: 05/15/18 16:50

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-6

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			05/24/18 22:00	1
Toluene	<1.0		1.0	ug/L			05/24/18 22:00	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 22:00	1
Xylenes, Total	<10		10	ug/L			05/24/18 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118		05/24/18 22:00	1
Dibromofluoromethane	104		81 - 121		05/24/18 22:00	1
1,2-Dichloroethane-d4 (Surr)	87		67 - 134		05/24/18 22:00	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: DP-01

Date Collected: 05/15/18 00:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.6		1.0	ug/L			05/24/18 22:26	1
Toluene	<1.0		1.0	ug/L			05/24/18 22:26	1
Ethylbenzene	4.7		1.0	ug/L			05/24/18 22:26	1
Xylenes, Total	<10		10	ug/L			05/24/18 22:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118				05/24/18 22:26	1
Dibromofluoromethane	101		81 - 121				05/24/18 22:26	1
1,2-Dichloroethane-d4 (Surr)	87		67 - 134				05/24/18 22:26	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: TB (5/15/18)

Date Collected: 05/15/18 16:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-8

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			05/24/18 19:02	1
Toluene	<1.0		1.0	ug/L			05/24/18 19:02	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 19:02	1
Xylenes, Total	<10		10	ug/L			05/24/18 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				05/24/18 19:02	1
Dibromofluoromethane	100		81 - 121				05/24/18 19:02	1
1,2-Dichloroethane-d4 (Surr)	83		67 - 134				05/24/18 19:02	1

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

GC/MS VOA

Analysis Batch: 398851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-153927-1	MW-1	Total/NA	Water	8260C	
400-153927-2	MW-2	Total/NA	Water	8260C	
400-153927-3	MW-7	Total/NA	Water	8260C	
400-153927-4	MW-9	Total/NA	Water	8260C	
400-153927-5	MW-15	Total/NA	Water	8260C	
400-153927-6	MW-16	Total/NA	Water	8260C	
400-153927-7	DP-01	Total/NA	Water	8260C	
400-153927-8	TB (5/15/18)	Total/NA	Water	8260C	
MB 400-398851/54	Method Blank	Total/NA	Water	8260C	
LCS 400-398851/1002	Lab Control Sample	Total/NA	Water	8260C	
400-153999-A-5 MS	Matrix Spike	Total/NA	Water	8260C	
400-153999-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

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

Lab Sample ID: MB 400-398851/54

Matrix: Water

Analysis Batch: 398851

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			05/24/18 16:04	1
Toluene	<1.0		1.0	ug/L			05/24/18 16:04	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 16:04	1
Xylenes, Total	<10		10	ug/L			05/24/18 16:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118		05/24/18 16:04	1
Dibromofluoromethane	101		81 - 121		05/24/18 16:04	1
1,2-Dichloroethane-d4 (Surr)	85		67 - 134		05/24/18 16:04	1

Lab Sample ID: LCS 400-398851/1002

Matrix: Water

Analysis Batch: 398851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.7		ug/L		93	70 - 130
Toluene	50.0	45.1		ug/L		90	70 - 130
Ethylbenzene	50.0	44.6		ug/L		89	70 - 130
Xylenes, Total	100	90.2		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	99		81 - 121
1,2-Dichloroethane-d4 (Surr)	82		67 - 134

Lab Sample ID: 400-153999-A-5 MS

Matrix: Water

Analysis Batch: 398851

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	<10		500	425		ug/L		85	56 - 142
Toluene	<10		500	404		ug/L		81	65 - 130
Ethylbenzene	<10		500	403		ug/L		81	58 - 131
Xylenes, Total	<100		1000	804		ug/L		80	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	90		78 - 118
Dibromofluoromethane	101		81 - 121
1,2-Dichloroethane-d4 (Surr)	81		67 - 134

Lab Sample ID: 400-153999-A-5 MSD

Matrix: Water

Analysis Batch: 398851

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	<10		500	449		ug/L		90	56 - 142	5	30
Toluene	<10		500	431		ug/L		86	65 - 130	7	30

TestAmerica Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

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

Lab Sample ID: 400-153999-A-5 MSD

Matrix: Water

Analysis Batch: 398851

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	<10		500	430		ug/L		86	58 - 131	7	30
Xylenes, Total	<100		1000	850		ug/L		85	59 - 130	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	91		78 - 118
Dibromofluoromethane	100		81 - 121
1,2-Dichloroethane-d4 (Surr)	83		67 - 134

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: MW-1

Date Collected: 05/15/18 17:10

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-1

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		1	5 mL	5 mL	398851	05/24/18 20:19	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: MW-2

Date Collected: 05/15/18 17:15

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-2

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	398851	05/24/18 20:44	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: MW-7

Date Collected: 05/15/18 17:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-3

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		2	5 mL	5 mL	398851	05/24/18 23:43	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: MW-9

Date Collected: 05/15/18 17:20

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-4

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	398851	05/24/18 21:09	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: MW-15

Date Collected: 05/15/18 16:15

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-5

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	398851	05/24/18 21:35	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: MW-16

Date Collected: 05/15/18 16:50

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-6

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	398851	05/24/18 22:00	BSW	TAL PEN
Instrument ID: CH_WASP										

TestAmerica Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Client Sample ID: DP-01

Date Collected: 05/15/18 00:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-7

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	398851	05/24/18 22:26	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: TB (5/15/18)

Date Collected: 05/15/18 16:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153927-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	398851	05/24/18 19:02	BSW	TAL PEN
Instrument ID: CH_WASP										

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

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
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	06-30-18
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	10-31-18
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-18
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	12-31-18
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
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	05-15-19
West Virginia DEP	State Program	3	136	06-30-18

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Stand Oil Com #1

TestAmerica Job ID: 400-153927-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030C	Purge and Trap	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

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-153927-1

Login Number: 153927

List Source: TestAmerica Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	1.0°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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-161320-1

Client Project/Site: ElPaso CGP Company - Standard Oil Com
#1

For:

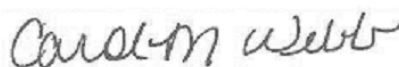
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

11/7/2018 11:50:55 AM

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

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

TestAmerica Job ID: 400-161320-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 - Standard Oil Com #1

TestAmerica Job ID: 400-161320-1

Job ID: 400-161320-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-161320-1

Comments

No additional comments.

Receipt

The samples were received on 10/30/2018 9:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-3 (400-161320-3), MW-10 (400-161320-8), and MW-11 (400-161320-9). 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.

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 - Standard Oil Com #1

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-1

Lab Sample ID: 400-161320-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.8		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	5.3		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-161320-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	19		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-161320-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	180		2.0	ug/L	2		8260C	Total/NA
Xylenes, Total	68		20	ug/L	2		8260C	Total/NA
Benzene - DL	1000		5.0	ug/L	5		8260C	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-161320-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	28		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	2.1		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-161320-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	35		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	85		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-161320-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	41		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	2.3		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-161320-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	82		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	97		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-161320-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	25		1.0	ug/L	1		8260C	Total/NA
Benzene - DL	520		5.0	ug/L	5		8260C	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-161320-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2400		10	ug/L	10		8260C	Total/NA
Ethylbenzene	550		10	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-11 (Continued)

Lab Sample ID: 400-161320-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	2900		100	ug/L	10		8260C	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-161320-10

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

Client Sample ID: MW-13

Lab Sample ID: 400-161320-11

No Detections.

Client Sample ID: MW-14

Lab Sample ID: 400-161320-12

No Detections.

Client Sample ID: MW-15

Lab Sample ID: 400-161320-13

No Detections.

Client Sample ID: MW-16

Lab Sample ID: 400-161320-14

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-161320-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	35		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	86		10	ug/L	1		8260C	Total/NA

Client Sample ID: TB-01

Lab Sample ID: 400-161320-16

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

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

TestAmerica Job ID: 400-161320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-161320-1	MW-1	Water	10/27/18 17:40	10/30/18 09:38
400-161320-2	MW-2	Water	10/27/18 17:25	10/30/18 09:38
400-161320-3	MW-3	Water	10/27/18 16:25	10/30/18 09:38
400-161320-4	MW-6	Water	10/27/18 16:10	10/30/18 09:38
400-161320-5	MW-7	Water	10/27/18 17:30	10/30/18 09:38
400-161320-6	MW-8	Water	10/27/18 16:20	10/30/18 09:38
400-161320-7	MW-9	Water	10/27/18 17:50	10/30/18 09:38
400-161320-8	MW-10	Water	10/27/18 16:55	10/30/18 09:38
400-161320-9	MW-11	Water	10/27/18 16:30	10/30/18 09:38
400-161320-10	MW-12	Water	10/27/18 16:35	10/30/18 09:38
400-161320-11	MW-13	Water	10/27/18 16:40	10/30/18 09:38
400-161320-12	MW-14	Water	10/27/18 16:50	10/30/18 09:38
400-161320-13	MW-15	Water	10/27/18 16:00	10/30/18 09:38
400-161320-14	MW-16	Water	10/27/18 17:20	10/30/18 09:38
400-161320-15	DUP-01	Water	10/27/18 15:30	10/30/18 09:38
400-161320-16	TB-01	Water	10/27/18 15:20	10/30/18 09:38

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-1

Date Collected: 10/27/18 17:40

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.8		1.0	ug/L			11/04/18 11:53	1
Toluene	<1.0		1.0	ug/L			11/04/18 11:53	1
Ethylbenzene	5.3		1.0	ug/L			11/04/18 11:53	1
Xylenes, Total	<10		10	ug/L			11/04/18 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118		11/04/18 11:53	1
Dibromofluoromethane	92		81 - 121		11/04/18 11:53	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 134		11/04/18 11:53	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-2

Date Collected: 10/27/18 17:25

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	19		1.0	ug/L			11/04/18 12:17	1
Toluene	<1.0		1.0	ug/L			11/04/18 12:17	1
Ethylbenzene	<1.0		1.0	ug/L			11/04/18 12:17	1
Xylenes, Total	<10		10	ug/L			11/04/18 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	111		78 - 118				11/04/18 12:17	1
Dibromofluoromethane	92		81 - 121				11/04/18 12:17	1
1,2-Dichloroethane-d4 (Surr)	107		67 - 134				11/04/18 12:17	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-3
Date Collected: 10/27/18 16:25
Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<2.0		2.0	ug/L			11/04/18 16:03	2
Ethylbenzene	180		2.0	ug/L			11/04/18 16:03	2
Xylenes, Total	68		20	ug/L			11/04/18 16:03	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118				11/04/18 16:03	2
Dibromofluoromethane	94		81 - 121				11/04/18 16:03	2
1,2-Dichloroethane-d4 (Surr)	102		67 - 134				11/04/18 16:03	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1000		5.0	ug/L			11/05/18 09:59	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		78 - 118				11/05/18 09:59	5
Dibromofluoromethane	93		81 - 121				11/05/18 09:59	5
1,2-Dichloroethane-d4 (Surr)	105		67 - 134				11/05/18 09:59	5

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-6
Date Collected: 10/27/18 16:10
Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28		1.0	ug/L			11/04/18 12:42	1
Toluene	<1.0		1.0	ug/L			11/04/18 12:42	1
Ethylbenzene	2.1		1.0	ug/L			11/04/18 12:42	1
Xylenes, Total	<10		10	ug/L			11/04/18 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118				11/04/18 12:42	1
Dibromofluoromethane	93		81 - 121				11/04/18 12:42	1
1,2-Dichloroethane-d4 (Surr)	106		67 - 134				11/04/18 12:42	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-7
Date Collected: 10/27/18 17:30
Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-5
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			11/04/18 13:06	1
Toluene	<1.0		1.0	ug/L			11/04/18 13:06	1
Ethylbenzene	35		1.0	ug/L			11/04/18 13:06	1
Xylenes, Total	85		10	ug/L			11/04/18 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118		11/04/18 13:06	1
Dibromofluoromethane	91		81 - 121		11/04/18 13:06	1
1,2-Dichloroethane-d4 (Surr)	98		67 - 134		11/04/18 13:06	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-8
Date Collected: 10/27/18 16:20
Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	41		1.0	ug/L			11/04/18 13:31	1
Toluene	<1.0		1.0	ug/L			11/04/18 13:31	1
Ethylbenzene	2.3		1.0	ug/L			11/04/18 13:31	1
Xylenes, Total	<10		10	ug/L			11/04/18 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118				11/04/18 13:31	1
Dibromofluoromethane	92		81 - 121				11/04/18 13:31	1
1,2-Dichloroethane-d4 (Surr)	102		67 - 134				11/04/18 13:31	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-9

Date Collected: 10/27/18 17:50

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	82		1.0	ug/L			11/04/18 13:57	1
Toluene	<1.0		1.0	ug/L			11/04/18 13:57	1
Ethylbenzene	97		1.0	ug/L			11/04/18 13:57	1
Xylenes, Total	<10		10	ug/L			11/04/18 13:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118				11/04/18 13:57	1
Dibromofluoromethane	92		81 - 121				11/04/18 13:57	1
1,2-Dichloroethane-d4 (Surr)	104		67 - 134				11/04/18 13:57	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-10

Date Collected: 10/27/18 16:55

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.0		1.0	ug/L			11/03/18 10:08	1
Ethylbenzene	25		1.0	ug/L			11/03/18 10:08	1
Xylenes, Total	<10		10	ug/L			11/03/18 10:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118		11/03/18 10:08	1
Dibromofluoromethane	92		81 - 121		11/03/18 10:08	1
1,2-Dichloroethane-d4 (Surr)	104		67 - 134		11/03/18 10:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	520		5.0	ug/L			11/03/18 11:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	112		78 - 118		11/03/18 11:21	5
Dibromofluoromethane	89		81 - 121		11/03/18 11:21	5
1,2-Dichloroethane-d4 (Surr)	97		67 - 134		11/03/18 11:21	5

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-11

Date Collected: 10/27/18 16:30

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2400		10	ug/L			11/04/18 16:29	10
Toluene	<10		10	ug/L			11/04/18 16:29	10
Ethylbenzene	550		10	ug/L			11/04/18 16:29	10
Xylenes, Total	2900		100	ug/L			11/04/18 16:29	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		78 - 118				11/04/18 16:29	10
Dibromofluoromethane	91		81 - 121				11/04/18 16:29	10
1,2-Dichloroethane-d4 (Surr)	105		67 - 134				11/04/18 16:29	10

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-12

Date Collected: 10/27/18 16:35

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	37		1.0	ug/L			11/04/18 14:21	1
Toluene	<1.0		1.0	ug/L			11/04/18 14:21	1
Ethylbenzene	<1.0		1.0	ug/L			11/04/18 14:21	1
Xylenes, Total	<10		10	ug/L			11/04/18 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		78 - 118				11/04/18 14:21	1
Dibromofluoromethane	93		81 - 121				11/04/18 14:21	1
1,2-Dichloroethane-d4 (Surr)	104		67 - 134				11/04/18 14:21	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-13

Date Collected: 10/27/18 16:40

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/04/18 14:45	1
Toluene	<1.0		1.0	ug/L			11/04/18 14:45	1
Ethylbenzene	<1.0		1.0	ug/L			11/04/18 14:45	1
Xylenes, Total	<10		10	ug/L			11/04/18 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118				11/04/18 14:45	1
Dibromofluoromethane	93		81 - 121				11/04/18 14:45	1
1,2-Dichloroethane-d4 (Surr)	107		67 - 134				11/04/18 14:45	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-14

Date Collected: 10/27/18 16:50

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-12

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			11/04/18 15:11	1
Toluene	<1.0		1.0	ug/L			11/04/18 15:11	1
Ethylbenzene	<1.0		1.0	ug/L			11/04/18 15:11	1
Xylenes, Total	<10		10	ug/L			11/04/18 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118		11/04/18 15:11	1
Dibromofluoromethane	93		81 - 121		11/04/18 15:11	1
1,2-Dichloroethane-d4 (Surr)	106		67 - 134		11/04/18 15:11	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-15

Date Collected: 10/27/18 16:00

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-13

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			11/04/18 15:37	1
Toluene	<1.0		1.0	ug/L			11/04/18 15:37	1
Ethylbenzene	<1.0		1.0	ug/L			11/04/18 15:37	1
Xylenes, Total	<10		10	ug/L			11/04/18 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		78 - 118				11/04/18 15:37	1
Dibromofluoromethane	92		81 - 121				11/04/18 15:37	1
1,2-Dichloroethane-d4 (Surr)	107		67 - 134				11/04/18 15:37	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-16

Date Collected: 10/27/18 17:20

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-14

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			11/05/18 08:46	1
Toluene	<1.0		1.0	ug/L			11/05/18 08:46	1
Ethylbenzene	<1.0		1.0	ug/L			11/05/18 08:46	1
Xylenes, Total	<10		10	ug/L			11/05/18 08:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118		11/05/18 08:46	1
Dibromofluoromethane	93		81 - 121		11/05/18 08:46	1
1,2-Dichloroethane-d4 (Surr)	106		67 - 134		11/05/18 08:46	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: DUP-01

Date Collected: 10/27/18 15:30

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-15

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			11/05/18 12:01	1
Toluene	<1.0		1.0	ug/L			11/05/18 12:01	1
Ethylbenzene	35		1.0	ug/L			11/05/18 12:01	1
Xylenes, Total	86		10	ug/L			11/05/18 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		78 - 118		11/05/18 12:01	1
Dibromofluoromethane	92		81 - 121		11/05/18 12:01	1
1,2-Dichloroethane-d4 (Surr)	99		67 - 134		11/05/18 12:01	1

Client Sample Results

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: TB-01

Date Collected: 10/27/18 15:20

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-16

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			11/05/18 08:20	1
Toluene	<1.0		1.0	ug/L			11/05/18 08:20	1
Ethylbenzene	<1.0		1.0	ug/L			11/05/18 08:20	1
Xylenes, Total	<10		10	ug/L			11/05/18 08:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118				11/05/18 08:20	1
Dibromofluoromethane	95		81 - 121				11/05/18 08:20	1
1,2-Dichloroethane-d4 (Surr)	106		67 - 134				11/05/18 08:20	1

QC Association Summary

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

TestAmerica Job ID: 400-161320-1

GC/MS VOA

Analysis Batch: 418202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-161320-8	MW-10	Total/NA	Water	8260C	
400-161320-8 - DL	MW-10	Total/NA	Water	8260C	
MB 400-418202/4	Method Blank	Total/NA	Water	8260C	
LCS 400-418202/1002	Lab Control Sample	Total/NA	Water	8260C	
400-161287-A-10 MS	Matrix Spike	Total/NA	Water	8260C	
400-161287-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 418244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-161320-1	MW-1	Total/NA	Water	8260C	
400-161320-2	MW-2	Total/NA	Water	8260C	
400-161320-3	MW-3	Total/NA	Water	8260C	
400-161320-4	MW-6	Total/NA	Water	8260C	
400-161320-5	MW-7	Total/NA	Water	8260C	
400-161320-6	MW-8	Total/NA	Water	8260C	
400-161320-7	MW-9	Total/NA	Water	8260C	
400-161320-9	MW-11	Total/NA	Water	8260C	
400-161320-10	MW-12	Total/NA	Water	8260C	
400-161320-11	MW-13	Total/NA	Water	8260C	
400-161320-12	MW-14	Total/NA	Water	8260C	
400-161320-13	MW-15	Total/NA	Water	8260C	
MB 400-418244/4	Method Blank	Total/NA	Water	8260C	
LCS 400-418244/1002	Lab Control Sample	Total/NA	Water	8260C	
400-161276-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-161276-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 418276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-161320-3 - DL	MW-3	Total/NA	Water	8260C	
400-161320-14	MW-16	Total/NA	Water	8260C	
400-161320-15	DUP-01	Total/NA	Water	8260C	
400-161320-16	TB-01	Total/NA	Water	8260C	
MB 400-418276/4	Method Blank	Total/NA	Water	8260C	
LCS 400-418276/1002	Lab Control Sample	Total/NA	Water	8260C	
400-161320-14 MS	MW-16	Total/NA	Water	8260C	
400-161320-14 MSD	MW-16	Total/NA	Water	8260C	

QC Sample Results

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

TestAmerica Job ID: 400-161320-1

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

Lab Sample ID: MB 400-418202/4

Matrix: Water

Analysis Batch: 418202

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			11/03/18 07:58	1
Toluene	<1.0		1.0	ug/L			11/03/18 07:58	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 07:58	1
Xylenes, Total	<10		10	ug/L			11/03/18 07:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118		11/03/18 07:58	1
Dibromofluoromethane	92		81 - 121		11/03/18 07:58	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 134		11/03/18 07:58	1

Lab Sample ID: LCS 400-418202/1002

Matrix: Water

Analysis Batch: 418202

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	42.9		ug/L		86	70 - 130
Toluene	50.0	46.8		ug/L		94	70 - 130
Ethylbenzene	50.0	48.0		ug/L		96	70 - 130
Xylenes, Total	100	96.0		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	107		78 - 118
Dibromofluoromethane	91		81 - 121
1,2-Dichloroethane-d4 (Surr)	103		67 - 134

Lab Sample ID: 400-161287-A-10 MS

Matrix: Water

Analysis Batch: 418202

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	4.8		50.0	46.8		ug/L		84	56 - 142
Toluene	<1.0		50.0	45.7		ug/L		91	65 - 130
Ethylbenzene	<1.0		50.0	46.4		ug/L		93	58 - 131
Xylenes, Total	<10		100	93.6		ug/L		94	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	109		78 - 118
Dibromofluoromethane	90		81 - 121
1,2-Dichloroethane-d4 (Surr)	103		67 - 134

Lab Sample ID: 400-161287-A-10 MSD

Matrix: Water

Analysis Batch: 418202

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	4.8		50.0	47.5		ug/L		85	56 - 142	1	30
Toluene	<1.0		50.0	45.8		ug/L		92	65 - 130	0	30

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-161320-1

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

Lab Sample ID: 400-161287-A-10 MSD

Matrix: Water

Analysis Batch: 418202

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	<1.0		50.0	46.1		ug/L		92	58 - 131	1	30
Xylenes, Total	<10		100	92.9		ug/L		93	59 - 130	1	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene	108		78 - 118								
Dibromofluoromethane	92		81 - 121								
1,2-Dichloroethane-d4 (Surr)	103		67 - 134								

Lab Sample ID: MB 400-418244/4

Matrix: Water

Analysis Batch: 418244

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			11/04/18 07:01	1
Toluene	<1.0		1.0	ug/L			11/04/18 07:01	1
Ethylbenzene	<1.0		1.0	ug/L			11/04/18 07:01	1
Xylenes, Total	<10		10	ug/L			11/04/18 07:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		78 - 118				11/04/18 07:01	1
Dibromofluoromethane	91		81 - 121				11/04/18 07:01	1
1,2-Dichloroethane-d4 (Surr)	104		67 - 134				11/04/18 07:01	1

Lab Sample ID: LCS 400-418244/1002

Matrix: Water

Analysis Batch: 418244

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	43.8		ug/L		88	70 - 130
Toluene	50.0	47.4		ug/L		95	70 - 130
Ethylbenzene	50.0	48.7		ug/L		97	70 - 130
Xylenes, Total	100	97.9		ug/L		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	109		78 - 118				
Dibromofluoromethane	91		81 - 121				
1,2-Dichloroethane-d4 (Surr)	103		67 - 134				

Lab Sample ID: 400-161276-A-2 MS

Matrix: Water

Analysis Batch: 418244

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	44.3		ug/L		87	56 - 142
Toluene	<1.0		50.0	46.4		ug/L		93	65 - 130
Ethylbenzene	<1.0		50.0	47.5		ug/L		95	58 - 131
Xylenes, Total	<10		100	95.5		ug/L		96	59 - 130

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-161320-1

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

Lab Sample ID: 400-161276-A-2 MS

Matrix: Water

Analysis Batch: 418244

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	107		78 - 118
Dibromofluoromethane	92		81 - 121
1,2-Dichloroethane-d4 (Surr)	106		67 - 134

Lab Sample ID: 400-161276-A-2 MSD

Matrix: Water

Analysis Batch: 418244

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	44.2		ug/L		87	56 - 142	0	30
Toluene	<1.0		50.0	45.9		ug/L		92	65 - 130	1	30
Ethylbenzene	<1.0		50.0	47.4		ug/L		95	58 - 131	0	30
Xylenes, Total	<10		100	95.3		ug/L		95	59 - 130	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	108		78 - 118
Dibromofluoromethane	92		81 - 121
1,2-Dichloroethane-d4 (Surr)	105		67 - 134

Lab Sample ID: MB 400-418276/4

Matrix: Water

Analysis Batch: 418276

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			11/05/18 07:56	1
Toluene	<1.0		1.0	ug/L			11/05/18 07:56	1
Ethylbenzene	<1.0		1.0	ug/L			11/05/18 07:56	1
Xylenes, Total	<10		10	ug/L			11/05/18 07:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118		11/05/18 07:56	1
Dibromofluoromethane	92		81 - 121		11/05/18 07:56	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 134		11/05/18 07:56	1

Lab Sample ID: LCS 400-418276/1002

Matrix: Water

Analysis Batch: 418276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.5		ug/L		97	70 - 130
Toluene	50.0	52.2		ug/L		104	70 - 130
Ethylbenzene	50.0	53.5		ug/L		107	70 - 130
Xylenes, Total	100	107		ug/L		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	108		78 - 118
Dibromofluoromethane	92		81 - 121

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-161320-1

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

Lab Sample ID: LCS 400-418276/1002

Matrix: Water

Analysis Batch: 418276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		67 - 134

Lab Sample ID: 400-161320-14 MS

Matrix: Water

Analysis Batch: 418276

Client Sample ID: MW-16

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	46.4		ug/L		93	56 - 142
Toluene	<1.0		50.0	49.0		ug/L		98	65 - 130
Ethylbenzene	<1.0		50.0	49.5		ug/L		99	58 - 131
Xylenes, Total	<10		100	99.4		ug/L		99	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	110		78 - 118
Dibromofluoromethane	91		81 - 121
1,2-Dichloroethane-d4 (Surr)	104		67 - 134

Lab Sample ID: 400-161320-14 MSD

Matrix: Water

Analysis Batch: 418276

Client Sample ID: MW-16

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	43.9		ug/L		88	56 - 142	5	30
Toluene	<1.0		50.0	47.4		ug/L		95	65 - 130	3	30
Ethylbenzene	<1.0		50.0	47.5		ug/L		95	58 - 131	4	30
Xylenes, Total	<10		100	95.9		ug/L		96	59 - 130	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	110		78 - 118
Dibromofluoromethane	93		81 - 121
1,2-Dichloroethane-d4 (Surr)	104		67 - 134

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-1

Date Collected: 10/27/18 17:40

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-1

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		1	5 mL	5 mL	418244	11/04/18 11:53	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-2

Date Collected: 10/27/18 17:25

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-2

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	418244	11/04/18 12:17	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-3

Date Collected: 10/27/18 16:25

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-3

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		2	5 mL	5 mL	418244	11/04/18 16:03	WPD	TAL PEN
Instrument ID: CH_CONAN										
Total/NA	Analysis	8260C	DL	5	5 mL	5 mL	418276	11/05/18 09:59	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-6

Date Collected: 10/27/18 16:10

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-4

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	418244	11/04/18 12:42	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-7

Date Collected: 10/27/18 17:30

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-5

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	418244	11/04/18 13:06	WPD	TAL PEN
Instrument ID: CH_CONAN										

Lab Chronicle

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-8

Date Collected: 10/27/18 16:20

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-6

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	418244	11/04/18 13:31	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-9

Date Collected: 10/27/18 17:50

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-7

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	418244	11/04/18 13:57	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-10

Date Collected: 10/27/18 16:55

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	418202	11/03/18 10:08	WPD	TAL PEN
Instrument ID: CH_CONAN										
Total/NA	Analysis	8260C	DL	5	5 mL	5 mL	418202	11/03/18 11:21	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-11

Date Collected: 10/27/18 16:30

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	5 mL	5 mL	418244	11/04/18 16:29	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-12

Date Collected: 10/27/18 16:35

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	418244	11/04/18 14:21	WPD	TAL PEN
Instrument ID: CH_CONAN										

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-161320-1

Client Sample ID: MW-13

Date Collected: 10/27/18 16:40

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	418244	11/04/18 14:45	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-14

Date Collected: 10/27/18 16:50

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	418244	11/04/18 15:11	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-15

Date Collected: 10/27/18 16:00

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-13

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	418244	11/04/18 15:37	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: MW-16

Date Collected: 10/27/18 17:20

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-14

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	418276	11/05/18 08:46	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: DUP-01

Date Collected: 10/27/18 15:30

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-15

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	418276	11/05/18 12:01	WPD	TAL PEN
Instrument ID: CH_CONAN										

Client Sample ID: TB-01

Date Collected: 10/27/18 15:20

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161320-16

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	418276	11/05/18 08:20	WPD	TAL PEN
Instrument ID: CH_CONAN										

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-161320-1

Laboratory References:

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

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Accreditation/Certification Summary

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

TestAmerica Job ID: 400-161320-1

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	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-18 *
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA170005	12-31-18
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-16	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	06-30-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

Method Summary

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

TestAmerica Job ID: 400-161320-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030C	Purge and Trap	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

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Company		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Ms. Sarah Gardner		Company: Stantec Consulting Services Inc		S. Gardner & S. Spiering 303 291-2239		Webb, Carol M carol.webb@testamericainc.com		400-77997-29210.1	
Project Name: Standard Oil Com		Address: 1560 Broadway Suite 1800		City: Denver		State, Zip: CO, 80202		Page: 1 of 2	
Due Date Requested:		TAT Requested (days):		PO #:		See Project Notes		Job #:	
Project #:		WO #:		Project #:		40005479			
SOW#:				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (W=water, S=solid, O=oil, A=air)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
MW-1		10/27/18		1740		G		W	
MW-2		10/27/18		1725		G		W	
MW-3		10/27/18		1625		G		W	
MW-6		10/27/18		1610		G		W	
MW-7		10/27/18		1730		G		W	
MW-8		10/27/18		1620		G		W	
MW-9		10/27/18		1750		G		W	
MW-10		10/27/18		1655		G		W	
MW-11		10/27/18		1630		G		W	
MW-12		10/27/18		1635		G		W	
MW-13		10/27/18		1640		G		W	
Possible Hazard Identification		Non-Hazard		Flammable		Skin Irritant		Poison B	
Deliverable Requested: I, II, III, IV, Other (specify)		Unknown		Radiological		Poison B		Unknown	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Return To Client	
Relinquished by: <i>Sarah Gardner</i>		Date/Time: 10/29/18		1200		Company: Stantec		Disposal By Lab	
Relinquished by:		Date/Time:				Company:		Archive For	
Relinquished by:		Date/Time:				Company:		Months	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		10-30-18		9:38		358 127	

Chain of Custody Record

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

Client Information Client Contact: Ms. Sarah Gardner Company: Stantec Consulting Services Inc Address: 1560 Broadway Suite 1800 City: Denver State, Zip: CO, 80202 Phone: 303-291-2239 (Tel) Email: sarah.gardner@stantec.com Project Name: Standard Oil Cor #1 Q4 2018 Site: Standard oil Cor		Sampler: S. Gardner + S. Spiering Phone: 303 291-2239 Lab PM: Webb, Carol M E-Mail: carol.webb@testamericainc.com		COC No: 400-77997-29210.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): Standard PO #: See Project Notes WO #: 40005479 Project #: 40005479 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - Other (specify) M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification Sample ID: MW-14 Sample ID: MW-15 Sample ID: MW-16 Sample ID: DUP-01 Sample ID: TB-01		Total Number of Containers: 3 Special Instructions/Note:			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab Archive For: Months			
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Special Instructions/QC Requirements: Method of Shipment:			
Custody Seals Intact: Δ Yes Δ No		Received by: [Signature] Received by: [Signature] Received by: [Signature] Date/Time: 10/29/2018 1200 Date/Time: 10/29/2018 9:38 Date/Time: 10/30/18 9:38 Cooler Temperature(s) °C and Other Remarks: 3.52 187			

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-161320-1

Login Number: 161320

List Number: 1

Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5°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 $<6\text{mm}$ (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: 400-161557-1

Client Project/Site: EIPaso CGP Company, LLC-Standard Oil
Com

For:

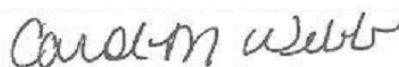
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

11/9/2018 11:52:59 AM

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

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results through

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Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Job ID: 400-161557-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-161557-1

Comments

No additional comments.

Receipt

The samples were received on 11/3/2018 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° 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: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Client Sample ID: MW-4

Lab Sample ID: 400-161557-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	44		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	35		10	ug/L	1		8260C	Total/NA

Client Sample ID: TB-01

Lab Sample ID: 400-161557-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-161557-1	MW-4	Water	11/02/18 12:30	11/03/18 08:15
400-161557-2	TB-01	Water	11/02/18 12:15	11/03/18 08:15

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Client Sample ID: MW-4
Date Collected: 11/02/18 12:30
Date Received: 11/03/18 08:15

Lab Sample ID: 400-161557-1
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			11/07/18 22:17	1
Toluene	<1.0		1.0	ug/L			11/07/18 22:17	1
Ethylbenzene	44		1.0	ug/L			11/07/18 22:17	1
Xylenes, Total	35		10	ug/L			11/07/18 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		78 - 118		11/07/18 22:17	1
Dibromofluoromethane	104		81 - 121		11/07/18 22:17	1
Toluene-d8 (Surr)	105		80 - 120		11/07/18 22:17	1
1,2-Dichloroethane-d4 (Surr)	118		67 - 134		11/07/18 22:17	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Client Sample ID: TB-01

Date Collected: 11/02/18 12:15

Date Received: 11/03/18 08:15

Lab Sample ID: 400-161557-2

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			11/07/18 19:29	1
Toluene	<1.0		1.0	ug/L			11/07/18 19:29	1
Ethylbenzene	<1.0		1.0	ug/L			11/07/18 19:29	1
Xylenes, Total	<10		10	ug/L			11/07/18 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		78 - 118				11/07/18 19:29	1
Dibromofluoromethane	100		81 - 121				11/07/18 19:29	1
Toluene-d8 (Surr)	106		80 - 120				11/07/18 19:29	1
1,2-Dichloroethane-d4 (Surr)	112		67 - 134				11/07/18 19:29	1

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

GC/MS VOA

Analysis Batch: 418711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-161557-1	MW-4	Total/NA	Water	8260C	
400-161557-2	TB-01	Total/NA	Water	8260C	
MB 400-418711/4	Method Blank	Total/NA	Water	8260C	
LCS 400-418711/1002	Lab Control Sample	Total/NA	Water	8260C	
400-161559-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-161559-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

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

Lab Sample ID: MB 400-418711/4

Matrix: Water

Analysis Batch: 418711

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			11/07/18 16:59	1
Toluene	<1.0		1.0	ug/L			11/07/18 16:59	1
Ethylbenzene	<1.0		1.0	ug/L			11/07/18 16:59	1
Xylenes, Total	<10		10	ug/L			11/07/18 16:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		78 - 118		11/07/18 16:59	1
Dibromofluoromethane	101		81 - 121		11/07/18 16:59	1
Toluene-d8 (Surr)	104		80 - 120		11/07/18 16:59	1
1,2-Dichloroethane-d4 (Surr)	115		67 - 134		11/07/18 16:59	1

Lab Sample ID: LCS 400-418711/1002

Matrix: Water

Analysis Batch: 418711

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	54.3		ug/L		109	70 - 130
Toluene	50.0	55.3		ug/L		111	70 - 130
Ethylbenzene	50.0	56.7		ug/L		113	70 - 130
Xylenes, Total	100	112		ug/L		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		78 - 118
Dibromofluoromethane	103		81 - 121
Toluene-d8 (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	112		67 - 134

Lab Sample ID: 400-161559-A-2 MS

Matrix: Water

Analysis Batch: 418711

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	130	F2 F1	50.0	179		ug/L		90	56 - 142
Toluene	25	F2 F1	50.0	75.4		ug/L		101	65 - 130
Ethylbenzene	<1.0		50.0	51.8		ug/L		104	58 - 131
Xylenes, Total	13		100	117		ug/L		103	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	104		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	111		67 - 134

TestAmerica Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

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

Lab Sample ID: 400-161559-A-2 MSD

Matrix: Water

Analysis Batch: 418711

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	130	F2 F1	50.0	52.8	F2 F1	ug/L	-	-162	56 - 142	109	30
Toluene	25	F2 F1	50.0	55.1	F2 F1	ug/L	-	61	65 - 130	31	30
Ethylbenzene	<1.0		50.0	55.5		ug/L	-	111	58 - 131	7	30
Xylenes, Total	13		100	108		ug/L	-	95	59 - 130	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	105		78 - 118
Dibromofluoromethane	101		81 - 121
Toluene-d8 (Surr)	106		80 - 120
1,2-Dichloroethane-d4 (Surr)	107		67 - 134

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Client Sample ID: MW-4

Date Collected: 11/02/18 12:30

Date Received: 11/03/18 08:15

Lab Sample ID: 400-161557-1

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		1	5 mL	5 mL	418711	11/07/18 22:17	BSW	TAL PEN
Instrument ID: Tesla										

Client Sample ID: TB-01

Date Collected: 11/02/18 12:15

Date Received: 11/03/18 08:15

Lab Sample ID: 400-161557-2

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	418711	11/07/18 19:29	BSW	TAL PEN
Instrument ID: Tesla										

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

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	06-30-19
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Louisiana (DW)	NELAP	6	LA180023	12-31-18
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USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	06-30-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-Standard Oil Com

TestAmerica Job ID: 400-161557-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030B	Purge and Trap	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

SERIAL NUMBER: 86327

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD**

QUOTE NO.

BOTTLE ORDER NO.

ORDER - LOG-IN NO.

C

CLIENT

Stantec

ADDRESS

1560 Broadway Suite 800 Denver CO 80202

PROJECT NO.

40005479

CLIENT PROJECT MANAGER

Sarah Gardner / Steve Varso

PROJECT LOC. (STATE)

NM

CONTRACT / P.O. NO.

Attn: Carol Webb

CLIENT PHONE

303 291 2239

CLIENT E-MAIL OR FAX

sarah.gardner@stantec.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL

☒ NORMAL 10 BUSINESS DAYS

☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☒ DISPOSAL BY LAB

☐ SEE CONTRACT ☐ OTHER:

SAMPLE IDENTIFICATION

DATE

TIME

11/2/2018

1230

Standard oil Com

MW-4

11/2/2018

1215

Standard oil Com

TB-01

RELINQUISHED BY: (SIGNATURE)

EMPTY CONTAINERS

RECEIVED BY: (SIGNATURE)

EMPTY CONTAINERS

DATE

TIME

11-3-18

0815

CUSTODY SEAL NO.

431937

REMARKS:

1.6°C IR-7

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:

DATE

TIME

11-3-18

0815

CUSTODY INTACT?

☒ YES ☐ NO

RECEIVED FOR LABORATORY BY:

DATE

TIME

11-3-18

0815

CUSTODY INTACT?

☒ YES ☐ NO

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☒ YES ☐ NO

RECEIVED FOR LABORATORY BY:

DATE

TIME

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-161557-1

Login Number: 161557

List Source: TestAmerica Pensacola

List Number: 1

Creator: Conrady, Hank W

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	1.6°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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	