2022 ANNUAL GROUNDWATER REPORT

Standard Oil Com #1
Incident Number: nAUTOfAB000666
Meter Code: 70445
T29N, R9W, Sec36, Unit N

REVIEWED
By Nelson Velez at 2:20 pm, May 17, 2023

Review of the 2022 ANNUAL GROUNDWATER REPORT: Content satisfactory

1. Continue to follow "Planned Future Activities" as noted within this report.
2. Please provide any evidence EPNG may have toward a potential source mentioned that may be contributing to the impacts within MW #3 & #11.
3. Submit next annual groundwater report to OCD no later than April 1, 2024.

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 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. 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). Soil boring SB-1 was also advanced and monitoring well MW-5 abandoned in 2015. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells and current and historical site features is provided as Figure 2. 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 12, 2022, and October 26, 2022, prior to initiating groundwater sampling activities at the Site. Copies of the 2022 NMOCD notifications are provided in Appendix A. On May 22 and November 6, 2022, water levels were gauged at MW-1 through MW-4 and MW-6 through MW-16. No light non-aqueous phase liquid (LNAPL) was detected in site monitoring wells during water level gauging in 2022. On May 22, 2022, groundwater samples were collected from MW-1, MW-2, MW-7, MW-9, MW-15, and MW-16. On November 6, 2022, groundwater samples were collected from MW-1 through MW-4, and MW-6 through MW-16. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge passive groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above the bottom of the well screen using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins Environment Testing Southeast, LLC (Eurofins) in Pensacola, Florida where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (EPA) Method 8260. One laboratory supplied trip blank and one blind field duplicate were also collected during each groundwater sampling event and submitted for analysis of BTEX constituents. The unused sample water was combined in a waste container and taken to Envirotech, Inc. south of Bloomfield, New Mexico for disposal. Waste disposal documentation is included as Appendix B.

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SUMMARY TABLES

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

SITE MAPS

Groundwater analytical results (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2022 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the west-northwest during 2022 (see Figures 4 and 6).
- LNAPL was not observed at the Site in the 2022 sampling events.
- The groundwater samples collected in May 2022 from MW-9 and in November 2022 from MW-3, MW-9, MW-10, and MW-11 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 2022 were either below the NMWQCC standard for benzene or not detected.
- Concentrations of toluene were not detected in the site monitoring wells sampled in 2022.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in the site monitoring wells sampled in 2022.
- The groundwater sample collected from MW-11 in November 2022 exceed the NMWQCC standard (620 µg/L) for total xylene in groundwater. The remaining groundwater samples collected in 2022 were either below the NMWQCC standard or not detected.
- Field duplicates were collected from MW-9 for the May and November 2022semi-annual monitoring events. No significant differences were noted between the primary and duplicate sample results.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2022 groundwater monitoring events.

PLANNED FUTURE ACTIVITIES

Semi-annual groundwater monitoring will continue for 2023.

No additional activities are planned for 2023 at this time. The results will be summarized in the 2023 Annual Report for the Site, to be submitted by April 1, 2024.

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Water quality results from wells MW-3 and MW-11 indicate a separate release not related to the former El Paso pit, and NMOCD stated during a February 6, 2019 meeting with EPCGP 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

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	08/18/03	NS	NS	NS	NS
MW-1	11/15/03	NS	NS	NS	NS
MW-1	02/17/04	NS	NS	NS	NS
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

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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-1	09/11/13	13	0.68 J	220	13
MW-1	12/12/13	12	17	150	8.7
MW-1	04/04/14	21	17	180	<0.65
MW-1	10/24/14	11	<0.70	120	<1.6
MW-1	05/31/15	16	13	130	3.8 J
MW-1	11/24/15	51	29	160	52
MW-1	04/16/16	22	<5.0	110	16
MW-1	10/15/16	36	33	180	72
MW-1	06/08/17	23	<5.0	140	26
MW-1	11/11/17	4.4	<1.0	58	<10
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-1	05/23/19	4.2	2.2	14	<10
MW-1	11/10/19	5.9	<1.0	14	<10
DUP-1(MW-1)*	11/10/19	5.2	<1.0	12	<10
MW-1	05/12/20	3.0	2.1	3.5	<10
DUP-01(MW-1)*	05/12/20	2.6	1.7	2.5	<10
MW-1	11/12/20	2.3	<1.0	4.5	<10
MW-1	05/19/21	1.5	<1.0	1.1	<10
DUP-01(MW-1)*	05/19/21	1.4	<1.0	1.0	<10
MW-1	11/11/21	<1.0	<1.0	2.8	<10
MW-1	05/22/22	<1.0	1.0	1.6	<10
MW-1	11/06/22	1.3	<1.0	4.5	<10
MW-2	12/13/01	940	74	360	2900
MW-2	08/06/02	NS	NS	NS	NS
MW-2	11/04/02	NS	NS	NS	NS
MW-2	05/19/03	673	167	228	1010
MW-2	08/18/03	NS	NS	NS	NS
MW-2	11/15/03	NS	NS	NS	NS
MW-2	02/17/04	NS	NS	NS	NS
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

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Standard Oil Com #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	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
MW-2	05/23/19	3.5	<1.0	<1.0	<10
MW-2	11/10/19	5.2	<1.0	4.8	<10
MW-2	05/12/20	1.8	<1.0	<1.0	<10
MW-2	11/12/20	26	<1.0	21	12
MW-2	05/19/21	2.3	<1.0	<1.0	<10
MW-2	11/11/21	4.9	<1.0	6.5	<10
MW-2	05/22/22	1.6	<1.0	<1.0	<10
MW-2	11/06/22	2.0	<1.0	1.2	<10
MW-3	12/13/01	1800	1600	570	5600
MW-3	08/06/02	NS	NS	NS	NS
MW-3	11/04/02	NS	NS	NS	NS
MW-3	05/19/03	NS	NS	NS	NS
MW-3	08/18/03	NS	NS	NS	NS
MW-3	11/15/03	NS	NS	NS	NS
MW-3	02/17/04	NS	NS	NS	NS
MW-3	06/02/04	NS	NS	NS	NS
MW-3	06/24/05	NS	NS	NS	NS
MW-3	06/07/06	NS	NS	NS	NS
MW-3	06/12/07	NS	NS	NS	NS
MW-3	06/16/08	NS	NS	NS	NS
MW-3	06/10/09	NS	NS	NS	NS
MW-3	06/02/10	NS	NS	NS	NS
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

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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	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	10/15/16	NS	NS	NS	NS
MW-3	06/08/17	NS	NS	NS	NS
MW-3	11/11/17	NS	NS	NS	NS
MW-3	05/15/18	NS	NS	NS	NS
MW-3	10/27/18	1000	<2.0	180	68
MW-3	05/23/19	NS	NS	NS	NS
MW-3	11/10/19	NS	NS	NS	NS
MW-3	05/12/20	NS	NS	NS	NS
MW-3	11/12/20	800	<5.0	310	73
MW-3	05/19/21	NS	NS	NS	NS
MW-3	11/11/21	NS	NS	NS	NS
MW-3	05/22/22	NS	NS	NS	NS
MW-3	11/06/22	730	<5.0	250	220
MW-4	12/13/01	380	340	780	7300
MW-4	08/06/02	NS	NS	NS	NS
MW-4	11/04/02	NS	NS	NS	NS
MW-4	05/19/03	NS	NS	NS	NS
MW-4	08/18/03	NS	NS	NS	NS
MW-4	11/15/03	NS	NS	NS	NS
MW-4	02/17/04	NS	NS	NS	NS
MW-4	06/02/04	NS	NS	NS	NS
MW-4	06/24/05	NS	NS	NS	NS
MW-4	06/07/06	NS	NS	NS	NS
MW-4	06/12/07	NS	NS	NS	NS
MW-4	06/16/08	NS	NS	NS	NS
MW-4	06/10/09	NS	NS	NS	NS
MW-4	06/02/10	NS	NS	NS	NS
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

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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-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	10/15/16	NS	NS	NS	NS
MW-4	06/08/17	NS	NS	NS	NS
MW-4	11/11/17	NS	NS	NS	NS
MW-4	05/15/18	NS	NS	NS	NS
MW-4	11/02/18	<1.0	<1.0	44	35
MW-4	05/23/19	NS	NS	NS	NS
MW-4	11/10/19	NS	NS	NS	NS
MW-4	05/12/20	NS	NS	NS	NS
MW-4	11/12/20	<1.0	<1.0	<1.0	<10
MW-4	05/19/21	NS	NS	NS	NS
MW-4	11/11/21	NS	NS	NS	NS
MW-4	05/22/22	NS	NS	NS	NS
MW-4	11/06/22	<1.0	<1.0	<1.0	<10
MW-5	11/09/06	NS	NS	NS	NS
MW-5	06/12/07	<1	<1	<1	15.6
MW-5	06/16/08	<1	<1	0.39 J	0.68 J
MW-5	06/10/09	<1	<1	1.7	4.2
MW-5	06/02/10	<2	<2	<2	<6
MW-5	05/09/11	NS	NS	NS	NS
MW-5	05/15/12	NS	NS	NS	NS
MW-5	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-5	09/11/13	<0.14	<0.30	<0.20	<0.23
MW-5	12/12/13	<0.20	<0.38	<0.20	<0.65
MW-5	04/04/14	0.74 J H	<0.38 H	<0.20 H	2 H
MW-5	10/24/14	NS	NS	NS	NS
MW-5	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-5 plugged and abandoned on 11-13-15					
MW-6	12/12/13	60	35	73	220
MW-6	04/04/14	29	9.4	25	38
MW-6	10/24/14	43	<0.70	20	2.5 J
MW-6	05/31/15	23	3.8 J	8.7	<5.0
MW-6	11/24/15	53	<1.0	21	4.6
MW-6	04/16/16	41	<5.0	8.1	<5.0
MW-6	10/15/16	NS	NS	NS	NS
MW-6	06/08/17	NS	NS	NS	NS
MW-6	11/11/17	NS	NS	NS	NS
MW-6	05/15/18	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	10/27/18	28	<1.0	2.1	<10
MW-6	05/23/19	NS	NS	NS	NS
MW-6	11/10/19	NS	NS	NS	NS
MW-6	05/12/20	NS	NS	NS	NS
MW-6	11/12/20	15	<1.0	2.3	<10
MW-6	05/19/21	NS	NS	NS	NS
MW-6	11/11/21	NS	NS	NS	NS
MW-6	05/22/22	NS	NS	NS	NS
MW-6	11/06/22	<1.0	<1.0	<1.0	<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-7	05/23/19	<1.0	<1.0	<1.0	<10
MW-7	11/10/19	<1.0	<1.0	<1.0	<10
MW-7	05/12/20	<1.0	<1.0	<1.0	<10
MW-7	11/12/20	<1.0	<1.0	<1.0	<10
MW-7	05/19/21	<1.0	<1.0	<1.0	<10
MW-7	11/11/21	<1.0	<1.0	<1.0	<10
MW-7	05/22/22	<1.0	<1.0	<1.0	<10
MW-7	11/06/22	<1.0	<1.0	<1.0	<10
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	10/15/16	NS	NS	NS	NS
MW-8	06/08/17	NS	NS	NS	NS
MW-8	11/11/17	NS	NS	NS	NS
MW-8	05/15/18	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-8	10/27/18	41	<1.0	2.3	<10
MW-8	05/23/19	NS	NS	NS	NS
MW-8	11/10/19	NS	NS	NS	NS
MW-8	05/12/20	NS	NS	NS	NS
MW-8	11/12/20	110	<1.0	3.3	<10
MW-8	05/19/21	NS	NS	NS	NS
MW-8	11/11/21	NS	NS	NS	NS
MW-8	05/22/22	NS	NS	NS	NS
MW-8	11/06/22	1.7	<1.0	<1.0	<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
MW-9	05/23/19	79	<1.0	96	<10
DUP-1(MW-9)*	05/23/19	81	<1.0	95	<10
MW-9	11/10/19	120	<2.0	130	<20
MW-9	05/12/20	70	<1.0	140	<10
MW-9	11/12/20	100	<5.0	170	<50
DUP-1(MW-9)*	11/12/20	120	<1.0	220	<10
MW-9	05/19/21	64	<1.0	57	<10
MW-9	11/11/21	50	<1.0	32	<10
DUP-1(MW-9)*	11/11/21	68	<1.0	72	<10
MW-9	05/22/22	42	<1.0	39	<10
DUP-1(MW-9)*	05/22/22	40	<1.0	37	<10
MW-9	11/06/22	120	<1.0	85	<10
DUP-1(MW-9)*	11/06/22	98	<1.0	71	<10
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

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-10	10/15/16	NS	NS	NS	NS
MW-10	06/08/17	NS	NS	NS	NS
MW-10	11/11/17	NS	NS	NS	NS
MW-10	05/15/18	NS	NS	NS	NS
MW-10	10/27/18	520	<1.0	25	<10
MW-10	05/23/19	NS	NS	NS	NS
MW-10	11/10/19	NS	NS	NS	NS
MW-10	05/12/20	NS	NS	NS	NS
MW-10	11/12/20	6.0	<1.0	<1.0	<10
MW-10	05/19/21	NS	NS	NS	NS
MW-10	11/11/21	NS	NS	NS	NS
MW-10	05/22/22	NS	NS	NS	NS
MW-10	11/06/22	20	<1.0	1.9	<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	10/15/16	NS	NS	NS	NS
MW-11	06/08/17	NS	NS	NS	NS
MW-11	11/11/17	NS	NS	NS	NS
MW-11	05/15/18	NS	NS	NS	NS
MW-11	10/27/18	2400	<10	550	2900
MW-11	05/23/19	NS	NS	NS	NS
MW-11	11/10/19	NS	NS	NS	NS
MW-11	05/12/20	NS	NS	NS	NS
MW-11	11/12/20	2600	<20	640	3900
MW-11	05/19/21	NS	NS	NS	NS
MW-11	11/11/21	NS	NS	NS	NS
MW-11	05/22/22	NS	NS	NS	NS
MW-11	11/06/22	2400	<10	590	3000
MW-12	11/24/15	260	8.9	320	2000
MW-12	04/16/16	210	<5.0	210	46
MW-12	10/15/16	NS	NS	NS	NS
MW-12	06/08/17	NS	NS	NS	NS
MW-12	11/11/17	NS	NS	NS	NS
MW-12	05/15/18	NS	NS	NS	NS
MW-12	10/27/18	37	<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-12	05/23/19	NS	NS	NS	NS
MW-12	11/10/19	NS	NS	NS	NS
MW-12	05/12/20	NS	NS	NS	NS
MW-12	11/12/20	1.9	<1.0	<1.0	<10
MW-12	05/19/21	NS	NS	NS	NS
MW-12	11/11/21	NS	NS	NS	NS
MW-12	05/22/22	NS	NS	NS	NS
MW-12	11/06/22	<1.0	<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	10/15/16	NS	NS	NS	NS
MW-13	06/08/17	NS	NS	NS	NS
MW-13	11/11/17	NS	NS	NS	NS
MW-13	05/15/18	NS	NS	NS	NS
MW-13	10/27/18	<1.0	<1.0	<1.0	<10
MW-13	05/23/19	NS	NS	NS	NS
MW-13	11/10/19	NS	NS	NS	NS
MW-13	05/12/20	NS	NS	NS	NS
MW-13	11/12/20	<1.0	<1.0	<1.0	<10
MW-13	05/19/21	NS	NS	NS	NS
MW-13	11/11/21	NS	NS	NS	NS
MW-13	05/22/22	NS	NS	NS	NS
MW-13	11/06/22	<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	10/15/16	NS	NS	NS	NS
MW-14	06/08/17	NS	NS	NS	NS
MW-14	11/11/17	NS	NS	NS	NS
MW-14	05/15/18	NS	NS	NS	NS
MW-14	10/27/18	<1.0	<1.0	<1.0	<10
MW-14	05/23/19	NS	NS	NS	NS
MW-14	11/10/19	NS	NS	NS	NS
MW-14	05/12/20	NS	NS	NS	NS
MW-14	11/12/20	<1.0	<1.0	<1.0	<10
MW-14	05/19/21	NS	NS	NS	NS
MW-14	11/11/21	NS	NS	NS	NS

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-14	05/22/22	NS	NS	NS	NS
MW-14	11/06/22	<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
MW-15	05/23/19	<1.0	<1.0	<1.0	<10
MW-15	11/10/19	<1.0	<1.0	<1.0	<10
MW-15	05/12/20	<1.0	<1.0	<1.0	<10
MW-15	11/12/20	<1.0	<1.0	<1.0	<10
MW-15	05/19/21	<1.0	<1.0	<1.0	<10
MW-15	11/11/21	<1.0	<1.0	<1.0	<10
MW-15	05/22/22	<1.0	<1.0	<1.0	<10
MW-15	11/06/22	<1.0	<1.0	<1.0	<10
MW-16	11/24/15	120	57	190	1500
MW-16	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-16	10/15/16	<1.0	<5.0	1.7	<5.0
MW-16	06/08/17	1.1	<5.0	2.2	6.2
MW-16	11/11/17	<1.0	<1.0	<1.0	<10
MW-16	05/15/18	<1.0	<1.0	<1.0	<10
MW-16	10/27/18	<1.0	<1.0	<1.0	<10
MW-16	05/23/19	<1.0	<1.0	<1.0	<10
MW-16	11/10/19	<1.0	<1.0	<1.0	<10
MW-16	05/12/20	<1.0	<1.0	<1.0	<10
MW-16	11/12/20	<1.0	<1.0	<1.0	<10
MW-16	05/19/21	<1.0	<1.0	<1.0	<10
MW-16	11/11/21	<1.0	<1.0	<1.0	<10
MW-16	05/22/22	<1.0	<1.0	<1.0	<10
MW-16	11/06/22	<1.0	<1.0	<1.0	<10

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 LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	09/12/95	5681.65	NR	21.03		5660.62
MW-1	11/07/96	5681.65	21.24	21.30	0.06	5660.39
MW-1	02/07/97	5681.65	NR	20.96		5660.69
MW-1	05/09/97	5681.65	NR	20.78		5660.87
MW-1	08/08/97	5681.65	NR	21.13		5660.52
MW-1	11/04/97	5681.65	NR	20.86		5660.79
MW-1	02/03/98	5681.65	NR	20.61		5661.04
MW-1	05/07/98	5681.65	NR	20.47		5661.18
MW-1	08/04/98	5681.65	NR	20.85		5660.80
MW-1	11/03/98	5681.65	NR	20.62		5661.03
MW-1	02/02/99	5681.65	NR	20.02		5661.63
MW-1	05/19/99	5681.65	NR	19.86		5661.79
MW-1	08/04/99	5681.65	NR	19.98		5661.67
MW-1	11/09/99	5681.65	NR	19.91		5661.74
MW-1	02/25/00	5681.65	NR	19.69		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	NR	20.29		5661.36
MW-1	02/15/01	5681.65	NR	20.18		5661.47
MW-1	06/04/01	5681.65	NR	20.05		5661.60
MW-1	08/07/01	5681.65	NR	20.41		5661.24
MW-1	12/04/01	5681.65	NR	20.26		5661.39
MW-1	02/25/02	5681.65	NR	20.06		5661.59
MW-1	05/14/02	5681.65	NR	20.17		5661.48
MW-1	08/06/02	5681.65	NR	20.69		5660.96
MW-1	11/04/02	5681.65	NR	20.61		5661.04
MW-1	02/27/03	5681.65	ND	20.24		5661.41
MW-1	05/19/03	5681.65	ND	20.31		5661.34
MW-1	08/18/03	5681.65	ND	21.00		5660.65
MW-1	11/15/03	5681.65	ND	20.41		5661.24
MW-1	02/17/04	5681.65	ND	19.89		5661.76
MW-1	06/02/04	5681.65	ND	19.99		5661.66
MW-1	06/24/05	5681.65	ND	19.98		5661.67
MW-1	06/07/06	5681.65	ND	20.18		5661.47
MW-1	06/12/07	5681.65	ND	19.85		5661.80
MW-1	06/16/08	5681.65	ND	20.24		5661.41
MW-1	06/10/09	5681.65	ND	20.52		5661.13
MW-1	06/02/10	5681.65	ND	20.63		5661.02
MW-1	05/09/11	5681.65	ND	20.60		5661.05
MW-1	05/15/12	5681.65	ND	20.61		5661.04
MW-1	06/05/13	5681.65	ND	20.79		5660.86
MW-1	09/11/13	5681.65	ND	21.21		5660.44

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	12/12/13	5681.65	ND	20.52		5661.13
MW-1	04/04/14	5681.65	ND	20.10		5661.55
MW-1	10/24/14	5681.65	ND	20.68		5660.97
MW-1	05/31/15	5681.65	ND	19.95		5661.70
MW-1	11/24/15	5681.65	ND	20.44		5661.21
MW-1	04/16/16	5681.65	ND	19.95		5661.70
MW-1	10/15/16	5681.65	ND	20.75		5660.90
MW-1	06/08/17	5681.65	ND	19.88		5661.77
MW-1	11/11/17	5681.65	ND	20.49		5661.16
MW-1	05/15/18	5681.65	ND	19.85		5661.80
MW-1	10/27/18	5681.65	ND	20.53		5661.12
MW-1	05/23/19	5681.65	ND	19.43		5662.22
MW-1	11/10/19	5681.65	ND	20.22		5661.43
MW-1	05/12/20	5681.65	ND	19.58		5662.07
MW-1	11/12/20	5681.65	ND	20.46		5661.19
MW-1	05/19/21	5681.65	ND	19.81		5661.84
MW-1	11/11/21	5681.65	ND	20.15		5661.50
MW-1	05/22/22	5681.65	ND	19.59		5662.06
MW-1	11/06/22	5681.65	ND	19.77		5661.88
MW-2	12/13/01	5688.83	NR	27.15		5661.68
MW-2	08/06/02	5688.83	NR	27.65		5661.18
MW-2	11/04/02	5688.83	NR	27.59		5661.24
MW-2	05/19/03	5688.83	ND	27.29		5661.54
MW-2	08/18/03	5688.83	ND	29.96		5658.87
MW-2	11/15/03	5688.83	ND	27.33		5661.50
MW-2	02/17/04	5688.83	ND	26.86		5661.97
MW-2	06/02/04	5688.83	ND	26.94		5661.89
MW-2	06/24/05	5688.83	ND	26.92		5661.91
MW-2	06/07/06	5688.83	ND	27.12		5661.71
MW-2	06/12/07	5688.83	ND	26.96		5661.87
MW-2	06/16/08	5688.83	ND	27.17		5661.66
MW-2	06/10/09	5688.83	ND	27.45		5661.38
MW-2	06/02/10	5688.83	ND	27.50		5661.33
MW-2	05/09/11	5688.83	ND	27.56		5661.27
MW-2	05/15/12	5688.83	ND	27.53		5661.30
MW-2	06/05/13	5688.83	ND	27.59		5661.24
MW-2	09/11/13	5688.83	ND	28.14		5660.69
MW-2	12/12/13	5688.83	ND	27.43		5661.40
MW-2	04/04/14	5688.83	ND	27.00		5661.83
MW-2	10/24/14	5688.83	ND	27.54		5661.29
MW-2	05/31/15	5688.83	ND	26.83		5662.00

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	11/24/15	5688.83	ND	27.32		5661.51
MW-2	04/16/16	5688.83	ND	26.82		5662.01
MW-2	10/15/16	5688.83	ND	27.66		5661.17
MW-2	06/08/17	5688.83	ND	26.74		5662.09
MW-2	11/11/17	5688.83	ND	27.34		5661.49
MW-2	05/15/18	5688.83	ND	26.73		5662.10
MW-2	10/27/18	5688.83	ND	27.40		5661.43
MW-2	05/23/19	5688.83	ND	26.28		5662.55
MW-2	11/10/19	5688.83	ND	27.13		5661.70
MW-2	05/12/20	5688.83	ND	26.51		5662.32
MW-2	11/12/20	5688.83	ND	27.30		5661.53
MW-2	05/19/21	5688.83	ND	26.75		5662.08
MW-2	11/11/21	5688.83	ND	27.06		5661.77
MW-2	05/22/22	5688.83	ND	26.51		5662.32
MW-2	11/06/22	5688.83	ND	26.74		5662.09
MW-3	12/13/01	5681.69	NR	27.15		5654.54
MW-3	08/06/02	5681.69	NR	27.65		5654.04
MW-3	11/04/02	5681.69	NR	27.59		5654.10
MW-3	05/19/03	5681.69	ND	27.29		5654.40
MW-3	08/18/03	5681.69	ND	29.96		5651.73
MW-3	11/15/03	5681.69	ND	27.33		5654.36
MW-3	02/17/04	5681.69	ND	26.86		5654.83
MW-3	06/02/04	5681.69	ND	26.94		5654.75
MW-3	06/24/05	5681.69	ND	26.92		5654.77
MW-3	06/07/06	5681.69	ND	27.12		5654.57
MW-3	06/12/07	5681.69	ND	26.96		5654.73
MW-3	06/16/08	5681.69	ND	27.17		5654.52
MW-3	06/10/09	5681.69	ND	27.45		5654.24
MW-3	06/02/10	5681.69	ND	27.50		5654.19
MW-3	05/09/11	5681.69	ND	27.56		5654.13
MW-3	05/15/12	5681.69	ND	27.53		5654.16
MW-3	06/05/13	5681.69	ND	21.57		5660.12
MW-3	09/11/13	5681.69	ND	22.02		5659.67
MW-3	12/12/13	5681.69	ND	21.33		5660.36
MW-3	04/04/14	5681.69	ND	20.89		5660.80
MW-3	10/24/14	5681.69	ND	21.49		5660.20
MW-3	05/31/15	5681.69	ND	20.73		5660.96
MW-3	11/24/15	5681.69	ND	21.24		5660.45
MW-3	04/16/16	5681.69	ND	20.73		5660.96
MW-3	10/15/16	5681.69	ND	21.55		5660.14
MW-3	06/08/17	5681.69	ND	20.65		5661.04

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	11/11/17	5681.69	ND	21.30		5660.39
MW-3	05/15/18	5681.69	ND	20.69		5661.00
MW-3	10/27/18	5681.69	ND	21.40		5660.29
MW-3	05/23/19	5681.69	ND	20.27		5661.42
MW-3	11/10/19	5681.69	ND	21.06		5660.63
MW-3	05/12/20	5681.69	ND	20.43		5661.26
MW-3	11/12/20	5681.69	ND	21.35		5660.34
MW-3	05/19/21	5681.69	ND	20.72		5660.97
MW-3	11/11/21	5681.69	ND	21.06		5660.63
MW-3	05/22/22	5681.69	ND	20.43		5661.26
MW-3	11/06/22	5681.69	ND	20.66		5661.03
MW-4	12/13/01	5677.86	NR	21.10		5656.76
MW-4	08/06/02	5677.86	NR	21.53		5656.32
MW-4	11/04/02	5677.86	NR	21.40		5656.46
MW-4	05/19/03	5677.86	ND	21.07		5656.79
MW-4	08/18/03	5677.86	ND	21.78		5656.08
MW-4	11/15/03	5677.86	ND	21.22		5656.64
MW-4	02/17/04	5677.86	ND	20.74		5657.12
MW-4	06/02/04	5677.86	ND	20.74		5657.12
MW-4	06/24/05	5677.86	ND	20.75		5657.11
MW-4	06/07/06	5677.86	ND	20.96		5656.90
MW-4	06/12/07	5677.86	ND	20.58		5657.28
MW-4	06/16/08	5677.86	ND	20.95		5656.91
MW-4	06/10/09	5677.86	ND	21.23		5656.63
MW-4	06/02/10	5677.86	ND	21.25		5656.61
MW-4	05/09/11	5677.86	ND	21.33		5656.53
MW-4	05/15/12	5677.86	ND	17.60		5660.26
MW-4	06/05/13	5677.86	ND	17.79		5660.07
MW-4	09/11/13	5677.86	ND	18.21		5659.65
MW-4	12/12/13	5677.86	ND	17.56		5660.30
MW-4	04/04/14	5677.86	ND	17.11		5660.75
MW-4	10/24/14	5677.86	ND	17.70		5660.16
MW-4	05/31/15	5677.86	ND	16.95		5660.91
MW-4	11/24/15	5677.86	ND	17.46		5660.40
MW-4	04/16/16	5677.86	ND	16.93		5660.93
MW-4	10/15/16	5677.86	ND	17.76		5660.10
MW-4	06/08/17	5677.86	ND	16.88		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 due to presence of roots			
MW-4	05/23/19	5677.86	ND	16.50		NM

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	11/10/19	5677.86	ND	17.29		NM
MW-4	05/12/20	5677.86	ND	16.67		5661.19
MW-4	11/12/20	5677.86	ND	17.52		5660.34
MW-4	05/19/21	5677.86	ND	16.92		5660.94
MW-4	11/11/21	5677.86	ND	17.00		5660.86
MW-4	05/22/22	5677.86	ND	16.68		5661.18
MW-4	11/06/22	5677.86	ND	16.90		5660.96
MW-5	11/09/06	5679.49	ND	17.63		5661.86
MW-5	06/12/07	5679.49	ND	17.85		5661.64
MW-5	06/16/08	5679.49	ND	18.20		5661.29
MW-5	06/10/09	5679.49	ND	18.58		5660.91
MW-5	06/02/10	5679.49	ND	18.65		5660.84
MW-5	05/09/11	5679.49	ND	18.74		5660.75
MW-5	05/15/12	5679.49	ND	18.67		5660.82
MW-5	06/05/13	5679.49	ND	18.88		5660.61
MW-5	09/11/13	5679.49	ND	19.41		5660.08
MW-5	12/12/13	5679.49	ND	18.69		5660.80
MW-5	04/04/14	5679.49	ND	18.18		5661.31
MW-5	10/24/14	5679.49	ND	DRY		DRY
MW-5	10/24/14	5679.49	ND	DRY		DRY
MW-5	05/31/15	5679.49	ND	17.99		5661.50
MW-5 plugged and abandoned on 11-13-15						
MW-6	12/12/13	5689.93	ND	27.63		5662.30
MW-6	04/04/14	5689.93	ND	27.20		5662.73
MW-6	10/24/14	5689.93	ND	27.69		5662.24
MW-6	05/31/15	5689.93	ND	27.01		5662.92
MW-6	11/24/15	5689.93	ND	27.49		5662.44
MW-6	04/16/16	5689.93	ND	27.07		5662.86
MW-6	10/15/16	5689.93	ND	27.77		5662.16
MW-6	06/08/17	5689.93	ND	26.91		5663.02
MW-6	11/11/17	5689.93	ND	27.51		5662.42
MW-6	05/15/18	5689.93	ND	26.90		5663.03
MW-6	10/27/18	5689.93	ND	27.48		5662.45
MW-6	05/23/19	5689.93	ND	26.56		5663.37
MW-6	11/10/19	5689.93	ND	27.18		5662.75
MW-6	05/12/20	5689.93	ND	26.62		5663.31
MW-6	11/12/20	5689.93	ND	27.41		5662.52
MW-6	05/19/21	5689.93	ND	26.81		5663.12
MW-6	11/11/21	5689.93	ND	27.12		5662.81

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	05/22/22	5689.93	ND	26.64		5663.29
MW-6	11/06/22	5689.93	ND	26.85		5663.08
MW-7	12/12/13	5682.68	ND	21.40		5661.28
MW-7	04/04/14	5682.68	ND	21.00		5661.68
MW-7	10/24/14	5682.68	ND	21.52		5661.16
MW-7	05/31/15	5682.68	ND	20.82		5661.86
MW-7	11/24/15	5682.68	ND	21.30		5661.38
MW-7	04/16/16	5682.68	ND	20.80		5661.88
MW-7	10/15/16	5682.68	ND	21.60		5661.08
MW-7	06/08/17	5682.68	ND	20.74		5661.94
MW-7	11/11/17	5682.68	ND	21.33		5661.35
MW-7	05/15/18	5682.68	ND	20.73		5661.95
MW-7	10/27/18	5682.68	ND	21.38		5661.30
MW-7	05/23/19	5682.68	ND	20.26		5662.42
MW-7	11/10/19	5682.68	ND	21.08		5661.60
MW-7	05/12/20	5682.68	ND	20.45		5662.23
MW-7	11/12/20	5682.68	ND	21.31		5661.37
MW-7	05/19/21	5682.68	ND	20.70		5661.98
MW-7	11/11/21	5682.68	ND	21.00		5661.68
MW-7	05/22/22	5682.68	ND	20.45		5662.23
MW-7	11/06/22	5682.68	ND	20.63		5662.05
MW-8	12/12/13	5688.59	ND	27.95		5660.64
MW-8	04/04/14	5688.59	ND	27.49		5661.10
MW-8	10/24/14	5688.59	ND	28.09		5660.50
MW-8	05/31/15	5688.59	ND	27.33		5661.26
MW-8	11/24/15	5688.59	ND	27.85		5660.74
MW-8	04/16/16	5688.59	ND	27.32		5661.27
MW-8	10/15/16	5688.59	ND	28.18		5660.41
MW-8	06/08/17	5688.59	ND	27.23		5661.36
MW-8	11/11/17	5688.59	ND	27.89		5660.70
MW-8	05/15/18	5688.59	ND	27.29		5661.30
MW-8	10/27/18	5688.59	ND	27.97		5660.62
MW-8	05/23/19	5688.59	ND	26.80		5661.79
MW-8	11/10/19	5688.59	ND	27.65		5660.94
MW-8	05/12/20	5688.59	ND	27.00		5661.59
MW-8	11/12/20	5688.59	ND	27.92		5660.67
MW-8	05/19/21	5688.59	ND	27.26		5661.33
MW-8	11/11/21	5688.59	ND	27.61		5660.98

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-8	05/22/22	5688.59	ND	27.01		5661.58
MW-8	11/06/22	5688.59	ND	27.22		5661.37
MW-9	12/12/13	5682.09	ND	21.61		5660.48
MW-9	04/04/14	5682.09	ND	21.11		5660.98
MW-9	10/24/14	5682.09	ND	21.66		5660.43
MW-9	05/31/15	5682.09	ND	20.94		5661.15
MW-9	11/24/15	5682.09	ND	21.41		5660.68
MW-9	04/16/16	5682.09	ND	20.92		5661.17
MW-9	10/15/16	5682.09	ND	21.72		5660.37
MW-9	06/08/17	5682.09	ND	20.85		5661.24
MW-9	11/11/17	5682.09	ND	21.46		5660.63
MW-9	05/15/18	5682.09	ND	20.86		5661.23
MW-9	10/27/18	5682.09	ND	21.55		5660.54
MW-9	05/23/19	5682.09	ND	20.43		5661.66
MW-9	11/10/19	5682.09	ND	21.24		5660.85
MW-9	05/12/20	5682.09	ND	20.60		5661.49
MW-9	11/12/20	5682.09	ND	21.51		5660.58
MW-9	05/19/21	5682.09	ND	20.86		5661.23
MW-9	11/11/21	5682.09	ND	21.18		5660.91
MW-9	05/22/22	5682.09	ND	20.61		5661.48
MW-9	11/06/22	5682.09	ND	20.81		5661.28
MW-10	12/12/13	5688.16	ND	27.74		5660.42
MW-10	04/04/14	5688.16	ND	27.30		5660.86
MW-10	10/24/14	5688.16	ND	27.91		5660.25
MW-10	05/31/15	5688.16	ND	27.14		5661.02
MW-10	11/24/15	5688.16	ND	27.67		5660.49
MW-10	04/16/16	5688.16	ND	27.13		5661.03
MW-10	10/15/16	5688.16	ND	27.99		5660.17
MW-10	06/08/17	5688.16	ND	27.04		5661.12
MW-10	11/11/17	5688.16	ND	27.74		5660.42
MW-10	05/15/18	5688.16	ND	27.12		5661.04
MW-10	10/27/18	5688.16	ND	27.84		5660.32
MW-10	05/23/19	5688.16	ND	26.65		5661.51
MW-10	11/10/19	5688.16	ND	27.51		5660.65
MW-10	05/12/20	5688.16	ND	26.82		5661.34
MW-10	11/12/20	5688.16	ND	27.75		5660.41
MW-10	05/19/21	5688.16	ND	27.08		5661.08
MW-10	11/11/21	5688.16	ND	27.43		5660.73

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-10	05/22/22	5688.16	ND	26.83		5661.33
MW-10	11/06/22	5688.16	ND	27.04		5661.12
MW-11	12/12/13	5680.33	ND	20.16		5660.17
MW-11	04/04/14	5680.33	ND	19.72		5660.61
MW-11	10/24/14	5680.33	ND	20.32		5660.01
MW-11	05/31/15	5680.33	ND	19.56		5660.77
MW-11	11/24/15	5680.33	ND	20.07		5660.26
MW-11	04/16/16	5680.33	ND	19.55		5660.78
MW-11	10/15/16	5680.33	ND	20.37		5659.96
MW-11	06/08/17	5680.33	ND	19.47		5660.86
MW-11	11/11/17	5680.33	ND	20.12		5660.21
MW-11	05/15/18	5680.33	ND	19.53		5660.80
MW-11	10/27/18	5680.33	ND	20.23		5660.10
MW-11	05/23/19	5680.33	ND	19.11		5661.22
MW-11	11/10/19	5680.33	ND	18.80		5661.53
MW-11	05/12/20	5680.33	ND	19.27		5661.06
MW-11	11/12/20	5680.33	ND	20.18		5660.15
MW-11	05/19/21	5680.33	ND	19.55		5660.78
MW-11	11/11/21	5680.33	ND	19.90		5660.43
MW-11	05/22/22	5680.33	ND	19.27		5661.06
MW-11	11/06/22	5680.33	ND	19.49		5660.84
MW-12	11/24/15	5676.34	ND	16.35		5659.99
MW-12	04/16/16	5676.34	ND	15.84		5660.50
MW-12	10/15/16	5676.34	ND	16.65		5659.69
MW-12	06/08/17	5676.34	ND	15.76		5660.58
MW-12	11/11/17	5676.34	ND	16.39		5659.95
MW-12	05/15/18	5676.34	ND	15.83		5660.51
MW-12	10/27/18	5676.34	ND	16.53		5659.81
MW-12	05/23/19	5676.34	ND	15.41		5660.93
MW-12	11/10/19	5676.34	ND	16.20		5660.14
MW-12	05/12/20	5676.34	ND	16.46		5659.88
MW-12	11/12/20	5676.34	ND	16.46		5659.88
MW-12	05/19/21	5676.34	ND	15.87		5660.47
MW-12	11/11/21	5676.34	ND	16.18		5660.16
MW-12	05/22/22	5676.34	ND	15.58		5660.76
MW-12	11/06/22	5676.34	ND	14.80		5661.54
MW-13	11/24/15	5681.64	ND	21.58		5660.06
MW-13	04/16/16	5681.64	ND	22.58		5660.57

TABLE 2 - GROUNDWATER ELEVATION RESULTS

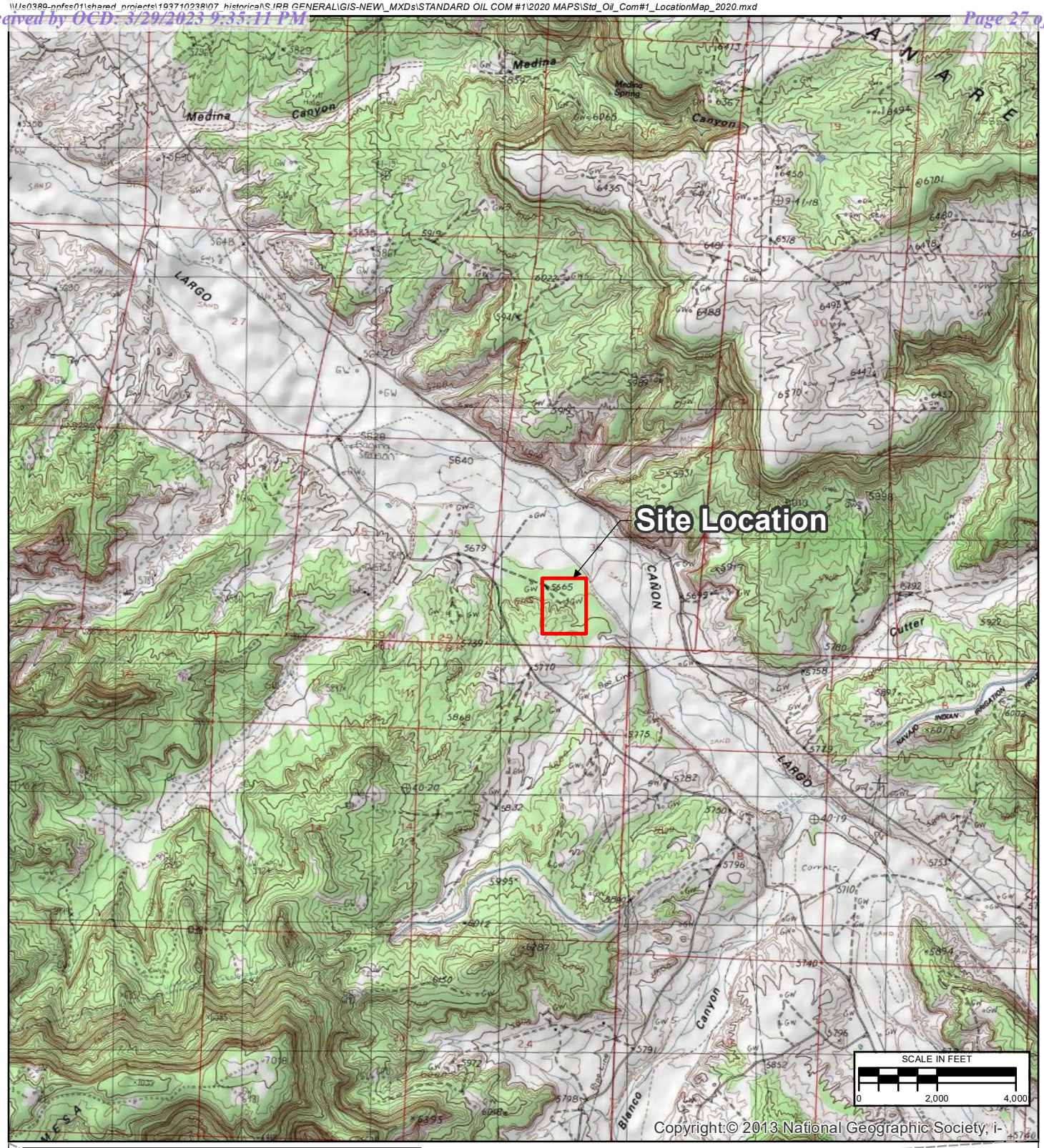
Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-13	10/15/16	5681.64	ND	23.58		5659.76
MW-13	06/08/17	5681.64	ND	24.58		5660.67
MW-13	11/11/17	5681.64	ND	25.58		5660.02
MW-13	05/15/18	5681.64	ND	26.58		5660.59
MW-13	10/27/18	5681.64	ND	27.58		5660.01
MW-13	05/23/19	5681.64	ND	28.58		5661.01
MW-13	11/10/19	5681.64	ND	29.58		5660.19
MW-13	05/12/20	5681.64	ND	20.79		5660.85
MW-13	11/12/20	5681.64	ND	21.67		5659.97
MW-13	05/19/21	5681.64	ND	21.07		5660.57
MW-13	11/11/21	5681.64	ND	21.41		5660.23
MW-13	05/22/22	5681.64	ND	20.79		5660.85
MW-13	11/06/22	5681.64	ND	21.02		5660.62
MW-14	11/24/15	5685.68	ND	36.33		5649.35
MW-14	04/16/16	5685.68	ND	24.41		5661.27
MW-14	10/15/16	5685.68	ND	25.04		5660.64
MW-14	06/08/17	5685.68	ND	24.12		5661.56
MW-14	11/11/17	5685.68	ND	24.91		5660.77
MW-14	05/15/18	5685.68	ND	24.41		5661.27
MW-14	10/27/18	5685.68	ND	24.99		5660.69
MW-14	05/23/19	5685.68	ND	23.87		5661.81
MW-14	11/10/19	5685.68	ND	24.65		5661.03
MW-14	05/12/20	5685.68	ND	24.06		5661.62
MW-14	11/12/20	5685.68	ND	24.95		5660.73
MW-14	05/19/21	5685.68	ND	24.33		5661.35
MW-14	11/11/21	5685.68	ND	24.65		5661.03
MW-14	05/22/22	5685.68	ND	24.01		5661.67
MW-14	11/06/22	5685.68	ND	24.24		5661.44
MW-15	11/24/15	5683.73	ND	22.10		5661.63
MW-15	04/16/16	5683.73	ND	21.61		5662.12
MW-15	10/15/16	5683.73	ND	22.43		5661.30
MW-15	06/08/17	5683.73	ND	21.56		5662.17
MW-15	11/11/17	5683.73	ND	22.16		5661.57
MW-15	05/15/18	5683.73	ND	21.52		5662.21
MW-15	10/27/18	5683.73	ND	22.18		5661.55
MW-15	05/23/19	5683.73	ND	21.06		5662.67
MW-15	11/10/19	5683.73	ND	28.88		5654.85
MW-15	05/12/20	5683.73	ND	21.25		5662.48
MW-15	11/12/20	5683.73	ND	22.10		5661.63
MW-15	05/19/21	5683.73	ND	21.51		5662.22

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Standard Oil Com #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-15	11/11/21	5683.73	ND	21.80		5661.93
MW-15	05/22/22	5683.73	ND	21.27		5662.46
MW-15	11/06/22	5683.73	ND	21.45		5662.28
MW-16	11/24/15	5679.67	ND	18.81		5660.86
MW-16	11/24/15	5679.67	ND	18.81		5660.86
MW-16	04/16/16	5679.67	ND	18.30		5661.37
MW-16	10/15/16	5679.67	ND	19.13		5660.54
MW-16	06/08/17	5679.67	ND	18.24		5661.43
MW-16	11/11/17	5679.67	ND	18.89		5660.78
MW-16	05/15/18	5679.67	ND	18.25		5661.42
MW-16	10/27/18	5679.67	ND	18.95		5660.72
MW-16	05/23/19	5679.67	ND	17.81		5661.86
MW-16	11/10/19	5679.67	ND	18.63		5661.04
MW-16	05/12/20	5679.67	ND	17.99		5661.68
MW-16	11/12/20	5679.67	ND	18.92		5660.75
MW-16	05/19/21	5679.67	ND	18.25		5661.42
MW-16	11/11/21	5679.67	ND	18.59		5661.08
MW-16	05/22/22	5679.67	ND	18.00		5661.67
MW-16	11/06/22	5679.67	ND	18.22		5661.45

Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = Light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded
Groundwater elevation = Top of Casing elevation (TOC, ft) + Depth to Water [ft] + (LPH thickness [ft] x 0.75). A specific gravity of 0.75 is within the range of gas condensate (https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate)

FIGURES



N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/18/2021	SAH	SAH	SRV

TITLE

SITE LOCATION

Stantec

PROJECT

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

FIGURE

1

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\STANDARD OIL COM #1\2019 MAPS\Std_Oil_Com#1_SITEMAP_2019.mxd

MW-4
MW-12
MW-16
5675
MW-11
MW-3
MW-9
MW-1
MW-7
MW-15
5680
FORMER EPC PIT EXCAVATED
APPROXIMATELY 12 FEET DEEP
SOIL
PILE
5685
BLOWDOWN
VALVE
WILLIAMS GAS
ENTERPRISE LINE
T-POST
MW-13
MW-10
MW-8
MW-2
SOIL PILE
SMA BENCHMARK
ELEV. 5687.12
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST
MW-14
MW-6
TANK 1
OIL STORAGE TANK
WELLHEAD
BURLINGTON RESOURCES
EXCAVATED PIT AREA (30' DEEP)
MW-BR
CONCRETE PAD
METER HOUSE
COMPRESSOR
SEPARATOR
TANK 2
COVERED STEEL TANK
AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/5/2016

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET (5795)
- 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

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/23/2021	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

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

Stantec

Figure No.: **2**

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\STANDARD OIL COM #1\2022 MAPS\Std_Oil_Com#1_GARM_1SA_2022.mxd

LEGEND:

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

NOTES:

DUP = 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

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

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-09-02	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS MAY 22, 2022

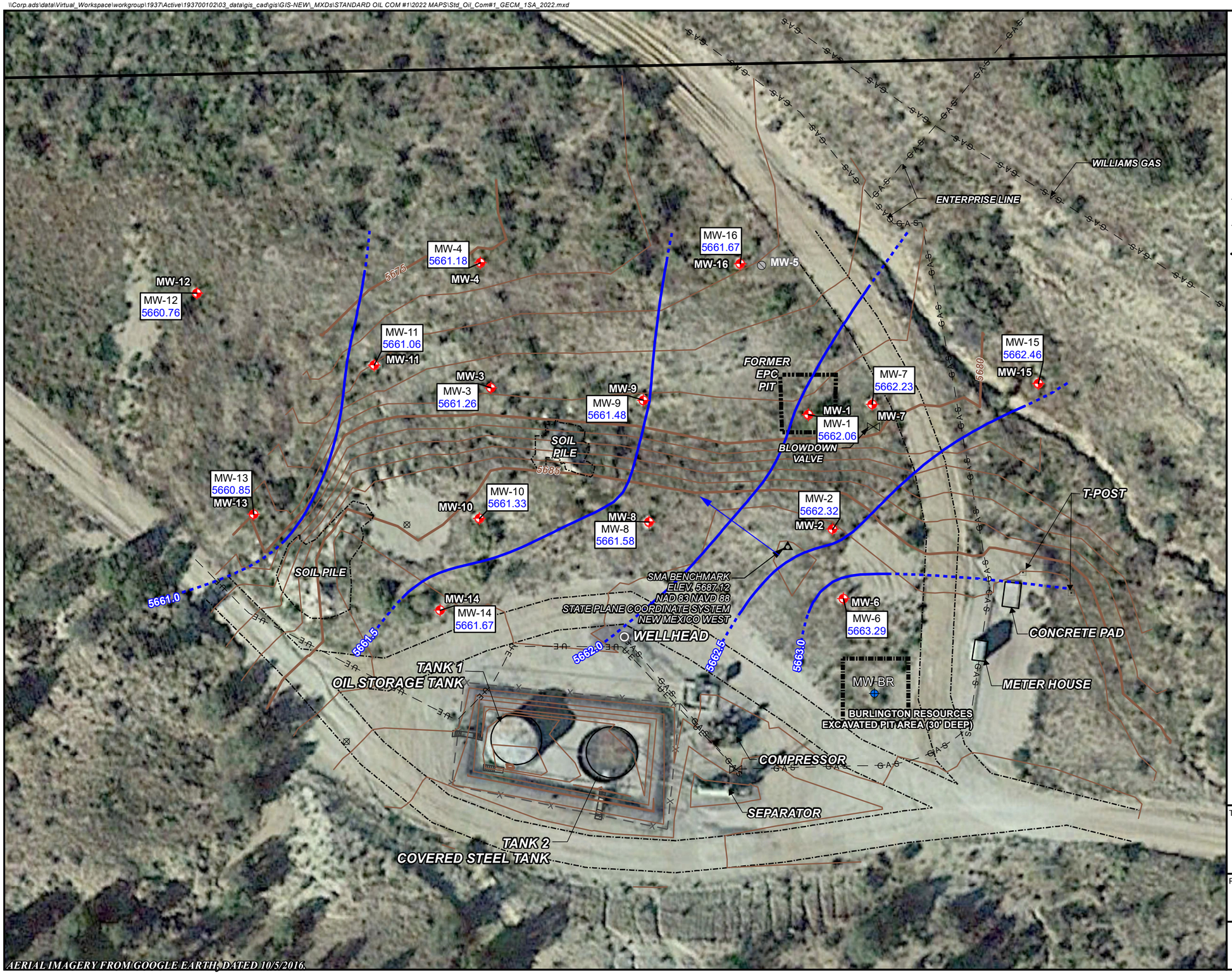
PROJECT:

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

Stantec

Figure No.: 3

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\STANDARD OIL COM #1\2022 MAPS\Std_Oil_Com#1_GECM_1SA_2022.mxd



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:

5662.06 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

5662.5 GROUNDWATER LEVEL ELEVATION (DASHED WHERE INFERRED FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

NO MEASURABLE (LIGHT NON-AQUEOUS PHASE LIQUID) LNAPL WAS DETECTED.

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-06-28	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 22, 2022

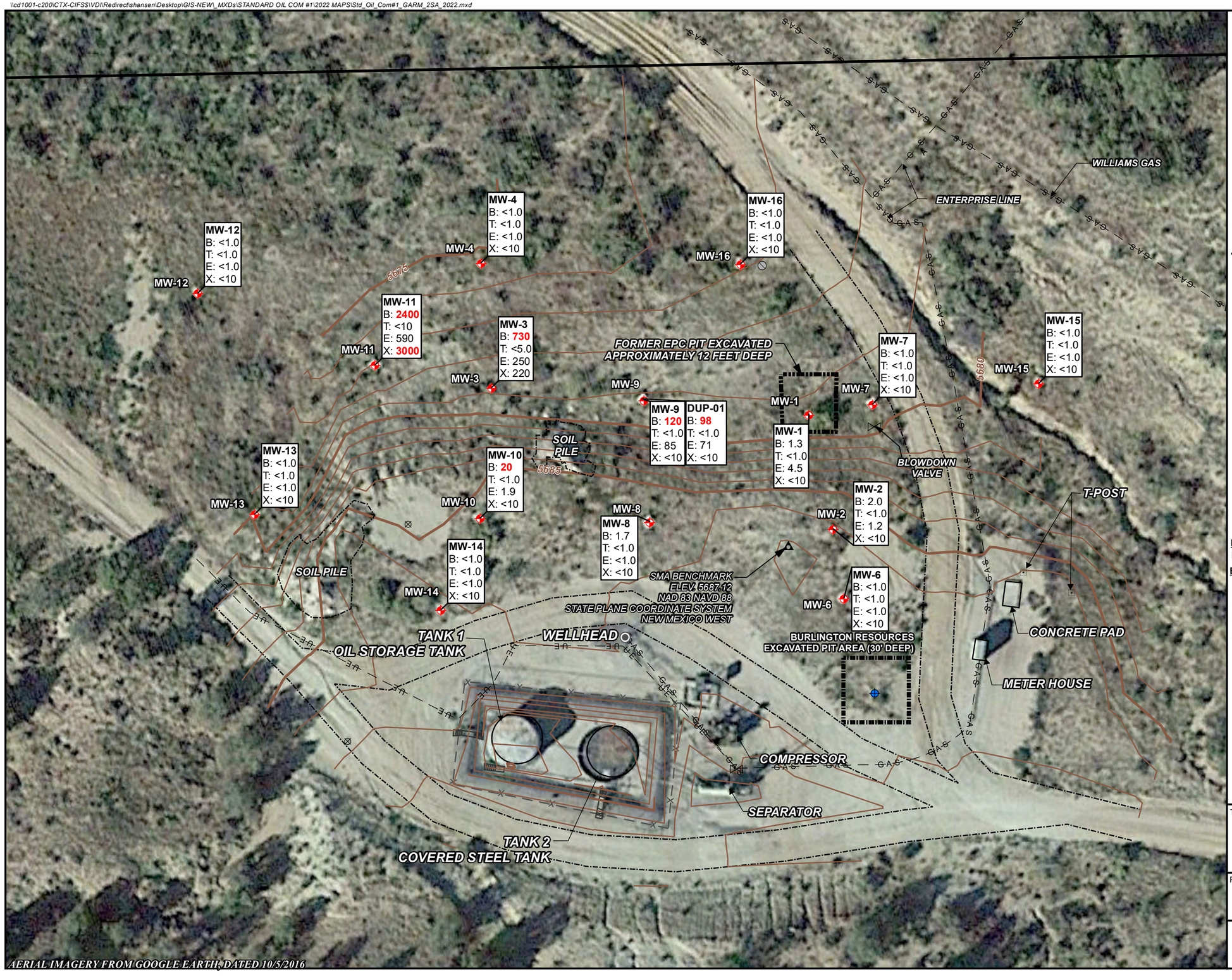
PROJECT:

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

Stantec

Figure No.: **4**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\STANDARD OIL COM #1\2022 MAPS\Std_Oil_Com#1_GARM_2SA_2022.mxd



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
- MONITORING WELL
- OTHER MONITORING WELL
- RIG ANCHOR
- BENCHMARK
- GAS VALVE

NOTES:

DUP = 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

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

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-01-05	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 6, 2022

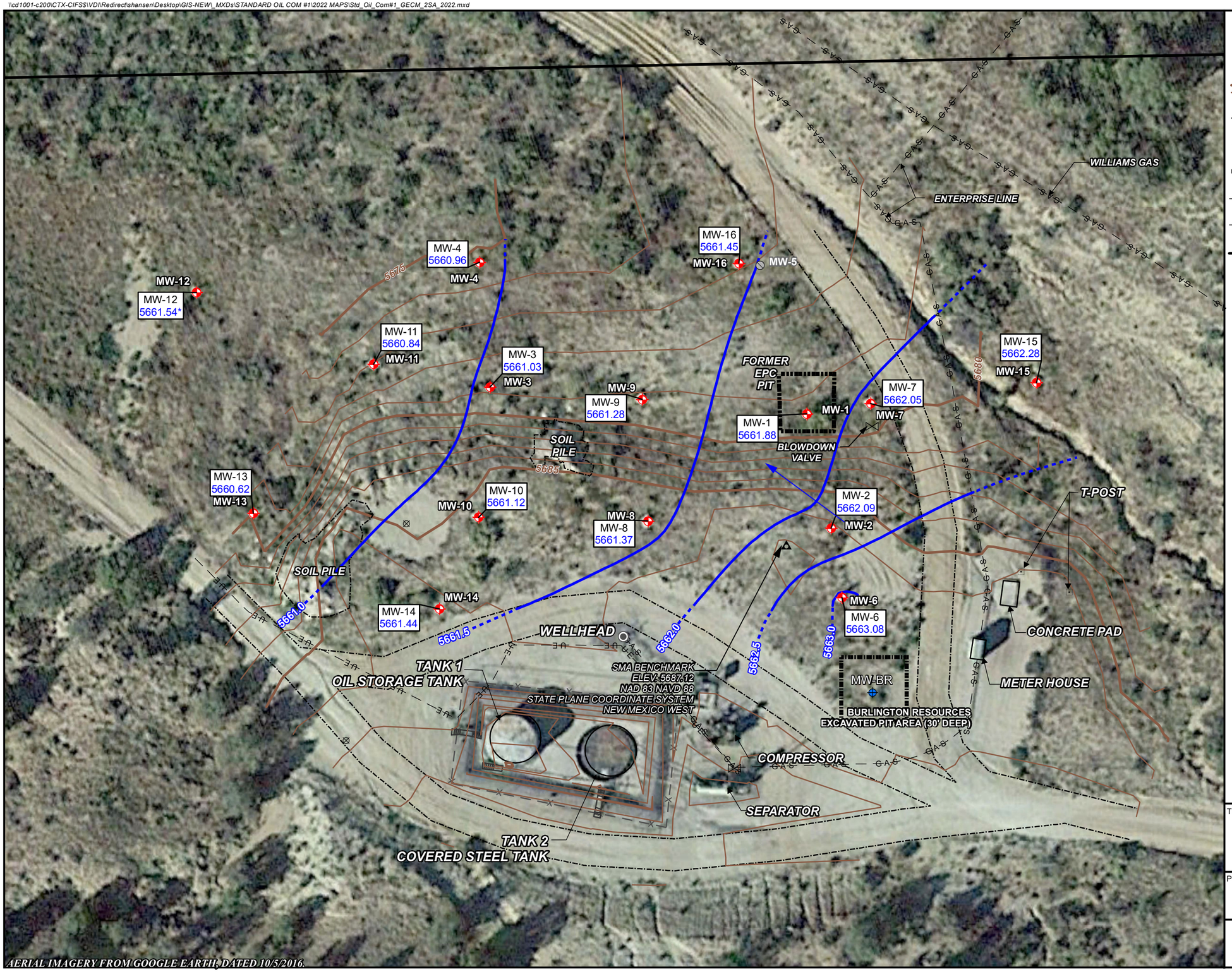
PROJECT:

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

Stantec

Figure No.: **5**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\STANDARD OIL COM #1\2022 MAPS\Std_Oil_Com#1_GECM_2SA_2022.mxd



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:

5662.05 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

5662.5 GROUNDWATER LEVEL ELEVATION (DASHED WHERE INFERRED FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

NO MEASURABLE (LIGHT NON-AQUEOUS PHASE LIQUID) LNAPL WAS DETECTED.

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-01-05	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 6, 2022

PROJECT:

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

Stantec

Figure No.: 6

APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX C – GROUNDWATER SAMPLING ANALYTICAL REPORTS

APPENDIX A

From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: FW: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Thursday, May 12, 2022 8:33:41 AM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	5/21/2022
Fields A#7A	nAUTOfAB000176	5/22/2022
Fogelson 4-1	nAUTOfAB000192	5/22/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	5/19/2022
GCU Com A #142E	nAUTOfAB000219	5/19/2022
James F. Bell #1E	nAUTOfAB000291	5/18/2022
Johnston Fed #4	nAUTOfAB000305	5/20/2022
Johnston Fed #6A	nAUTOfAB000309	5/20/2022
K27 LDO72	nAUTOfAB000316	5/21/2022
Knight #1	nAUTOfAB000324	5/19/2022
Lateral L 40 Line Drip	nAUTOfAB000335	5/18/2022
Miles Fed #1A	nAUTOfAB000391	5/21/2022
Sandoval GC A #1A	nAUTOfAB000635	5/20/2022
Standard Oil Com #1	nAUTOfAB000666	5/21/2022
State Gas Com N #1	nAUTOfAB000668	5/22/2022

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

From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, October 26, 2022 3:13:50 PM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	11/6/2022
Fields A#7A	nAUTOfAB000176	10/31/2022
Fogelson 4-1	nAUTOfAB000192	10/30/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/3/2022
GCU Com A #142E	nAUTOfAB000219	11/2/2022
James F. Bell #1E	nAUTOfAB000291	11/4/2022
Johnston Fed #4	nAUTOfAB000305	11/5/2022
Johnston Fed #6A	nAUTOfAB000309	11/5/2022
K27 LDO72	nAUTOfAB000316	11/6/2022
Knight #1	nAUTOfAB000324	11/4/2022
Lateral L 40 Line Drip	nAUTOfAB000335	10/30/2022
Sandoval GC A #1A	nAUTOfAB000635	11/5/2022
Standard Oil Com #1	nAUTOfAB000666	11/6/2022
State Gas Com N #1	nAUTOfAB000668	11/1/2022

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Saturday, October 29, 2022.

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., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX B

envirotech

Bill of Lading

MANIFEST # 73058
GENERATOR El Paso
POINT OF ORIGIN Rio Vista Comp Station
TRANSPORTER Envirotech
DATE 05-24-22 JOB # See Below

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	liquid			3.			938	1445	
					3					
					14073-0060	CCLC 0059	1 Drum	San Juan River Plant		
							1 Drum	Blanco North Flare		
					14073-0060		1 Drum	NM GW Pits (15 sites)		

RESULTS		
315	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Corey Robinson BLM

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

SCANNED

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

envirotech

Bill of Lading

MANIFEST # 76385
GENERATOR El Paso
POINT OF ORIGIN See notes
TRANSPORTER Envirotech
DATE 11-07-22 JOB # 14073-0060

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Cont Liquid				1	01154	937	0845	Andrew Mtz
						1				
									SCANNED	

RESULTS			LANDFARM EMPLOYEE	NOTES
-291	CHLORIDE TEST	1		See Attachment
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	C-138 Pit Sites
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 76385

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-7-22 TIME 8:45 Am

CUSTOMER Kinder Morgan

SITE Pit Site

DRIVER A. Musso

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST -291 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 8:47 Time completed _____

PASS YES _____ NO _____

SAMPLER/ANALYST CR

Attach test strip here

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

envirotech

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 01154	Page 1 of

Generator's Name	Generator's Address	Generator's Telephone No.
KINDER MORGAN	1001 LOUISIANA ~~BLVD~~ STREET, ROOM 9561, HOUSTON, TX	~~505~~ 713-420-3475

Origin of Special Waste (Project or Spill Location): SJRB PIT & PLANT SITES

Transporter #1 Company Name	Address	Telephone No.
ENVIROTECH	5796 US HWY 64, FARMINGTON, NM	505-632-0615
Transporter #2 Company Name	Address	Telephone No.
Destination Facility Name/Site Address	Facility ID (Permit) Number	Telephone No.
ENVIROTECH LANDFARM 2	NM01-0011	505-632-0615

Type and Proper Name of Special Waste	Container(s) No.	Container(s) Type	Total Quantity	Unit Wt/Vol	
WATER AND DRIP	1	L	4	70GAL	

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.

GENERATOR

Printed/Typed Name:	Signature:	Date:
Sean R Clary	Sean R Clary	11/7/2022

TRANSPORTER

Transporter 1 Acknowledgement of Receipt of Special Waste

Printed/Typed Name:	Signature:	Date:
ANDREW MUSSO	ANDREW MUSSO	11/7/2022

Transporter 2 Acknowledgement of Receipt of Special Waste

Printed/Typed Name:	Signature:	Date:

FACILITY

Discrepancy Indication Space:

Facility Owner or Operator: ***I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.***

Printed/Typed Name:	Signature:	Date:
Gary Robinson	Gary Robinson	11-07-22

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:** **Billing code for invoice:**
El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. **Originating Site:**
Johnston Federal #4, Johnston Federal #6A, Sandoval GC A#1A, Canada Mesa #2, K-27 LD072, Standard Oil Com #1, Knight #1, Gallegos Canyon Unit #124E, GCU Com A #142E, Fields A#7A, State Gas Com N #1, Fogelson 4-1, Lat L 40, and James F. Bell #1E.

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit C, Sec. 35, T30N, R09W; Unit I, Sec. 24, T24N, R06W; Unit E, Sec 5, T25N, R06W; Unit N, Sec. 36, T29N, R09W, Unit A, Sec. 5, T30N, R13W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit E, Sec. 34, T32N, R11W; Unit H, Sec. 16, T31N, R12W; Unit P, Sec. 4, T29N, R11W; Unit H, Sec. 13, T28N, R04W; and Unit P, Sec. 10, T30N, R13W, respectively.

4. **Source and Description of Waste:**
Historic releases occurred on the above-referenced property. As part of environmental investigation activities, monitoring wells will be sampled, and purged liquids 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, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
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, Joseph Wiley, representative for El Paso CGP Company, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ 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.

6. **Transporter: Envirotech, Inc.**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

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: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____

APPENDIX C

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-220387-1
Client Project/Site: Standard Oil Com #1
Revision: 1

For:
Stantec Consulting Services Inc
11311 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Authorized for release by:
6/24/2022 11:04:49 AM
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

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

Laboratory Job ID: 400-220387-1

Table of Contents

Case Narrative

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

Job ID: 400-220387-1

Job ID: 400-220387-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-220387-1

Comments
No additional comments.

Receipt
The samples were received on 5/24/2022 9:02 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2º C.

Revision
The samples for this project were stored and shipped with samples collected from the Canada Mesa #2 site (project 400-218622), which included a trip blank. The trip blank results from 400-218622 are applicable to the samples collected for this project site (No Detections).

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: Standard Oil Com #1

Job ID: 400-220387-1

Client Sample ID: MW-1 — Lab Sample ID: 400-220387-1

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

Client Sample ID: MW-2 — Lab Sample ID: 400-220387-2

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

Client Sample ID: MW-7 — Lab Sample ID: 400-220387-3

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 400-220387-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	42		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	39		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 400-220387-5

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 400-220387-6

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-220387-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	40		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	37		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

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

Job ID: 400-220387-1

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 = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

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

Job ID: 400-220387-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-220387-1	MW-1	Water	05/22/22 15:20	05/24/22 09:02
400-220387-2	MW-2	Water	05/22/22 15:10	05/24/22 09:02
400-220387-3	MW-7	Water	05/22/22 15:07	05/24/22 09:02
400-220387-4	MW-9	Water	05/22/22 15:05	05/24/22 09:02
400-220387-5	MW-15	Water	05/22/22 15:00	05/24/22 09:02
400-220387-6	MW-16	Water	05/22/22 14:50	05/24/22 09:02
400-220387-7	DUP-01	Water	05/22/22 16:05	05/24/22 09:02

Client Sample Results

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

Job ID: 400-220387-1

Client Sample ID: MW-1

Date Collected: 05/22/22 15:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-1

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			06/03/22 18:31	1
Toluene	**1.0**		1.0		ug/L			06/03/22 18:31	1
Ethylbenzene	**1.6**		1.0		ug/L			06/03/22 18:31	1
Xylenes, Total	<10		10		ug/L			06/03/22 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*06/03/22 18:31*	*1*
Dibromofluoromethane	*95*		*75 - 126*		*06/03/22 18:31*	*1*
Toluene-d8 (Surr)	*91*		*64 - 132*		*06/03/22 18:31*	*1*

Client Sample Results

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

Job ID: 400-220387-1

Client Sample ID: MW-2

Date Collected: 05/22/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.6**		1.0		ug/L			06/03/22 19:00	1
Toluene	<1.0		1.0		ug/L			06/03/22 19:00	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 19:00	1
Xylenes, Total	<10		10		ug/L			06/03/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*06/03/22 19:00*	*1*
Dibromofluoromethane	*95*		*75 - 126*		*06/03/22 19:00*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/03/22 19:00*	*1*

Client Sample Results

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

Job ID: 400-220387-1

Client Sample ID: MW-7

Date Collected: 05/22/22 15:07
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/03/22 19:29	1
Toluene	<1.0		1.0		ug/L			06/03/22 19:29	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 19:29	1
Xylenes, Total	<10		10		ug/L			06/03/22 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*06/03/22 19:29*	*1*
Dibromofluoromethane	*95*		*75 - 126*		*06/03/22 19:29*	*1*
Toluene-d8 (Surr)	*90*		*64 - 132*		*06/03/22 19:29*	*1*

Client Sample Results

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

Job ID: 400-220387-1

Client Sample ID: MW-9

Date Collected: 05/22/22 15:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**42**		1.0		ug/L			06/03/22 19:59	1
Toluene	<1.0		1.0		ug/L			06/03/22 19:59	1
Ethylbenzene	**39**		1.0		ug/L			06/03/22 19:59	1
Xylenes, Total	<10		10		ug/L			06/03/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*06/03/22 19:59*	*1*
Dibromofluoromethane	*94*		*75 - 126*		*06/03/22 19:59*	*1*
Toluene-d8 (Surr)	*89*		*64 - 132*		*06/03/22 19:59*	*1*

Client Sample Results

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

Job ID: 400-220387-1

Client Sample ID: MW-15

Date Collected: 05/22/22 15:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-5

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			06/03/22 20:28	1
Toluene	<1.0		1.0		ug/L			06/03/22 20:28	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 20:28	1
Xylenes, Total	<10		10		ug/L			06/03/22 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*06/03/22 20:28*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*06/03/22 20:28*	*1*
Toluene-d8 (Surr)	*91*		*64 - 132*		*06/03/22 20:28*	*1*

Client Sample Results

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

Job ID: 400-220387-1

Client Sample ID: MW-16

Date Collected: 05/22/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-6

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			06/03/22 20:57	1
Toluene	<1.0		1.0		ug/L			06/03/22 20:57	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 20:57	1
Xylenes, Total	<10		10		ug/L			06/03/22 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*06/03/22 20:57*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*06/03/22 20:57*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/03/22 20:57*	*1*

Client Sample Results

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

Job ID: 400-220387-1

Client Sample ID: DUP-01

Date Collected: 05/22/22 16:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-7

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**40**		1.0		ug/L			06/03/22 21:26	1
Toluene	<1.0		1.0		ug/L			06/03/22 21:26	1
Ethylbenzene	**37**		1.0		ug/L			06/03/22 21:26	1
Xylenes, Total	<10		10		ug/L			06/03/22 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*06/03/22 21:26*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*06/03/22 21:26*	*1*
Toluene-d8 (Surr)	*89*		*64 - 132*		*06/03/22 21:26*	*1*

Definitions/Glossary

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

Job ID: 400-220387-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Lab Chronicle

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

Job ID: 400-220387-1

Client Sample ID: MW-1
Date Collected: 05/22/22 15:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-1
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	579953	06/03/22 18:31	BPO	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: MW-2
Date Collected: 05/22/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-2
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	579953	06/03/22 19:00	BPO	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: MW-7
Date Collected: 05/22/22 15:07
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579953	06/03/22 19:29	BPO	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: MW-9
Date Collected: 05/22/22 15:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-4
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	579953	06/03/22 19:59	BPO	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: MW-15
Date Collected: 05/22/22 15:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-5
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	579953	06/03/22 20:28	BPO	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: MW-16
Date Collected: 05/22/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-6
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	579953	06/03/22 20:57	BPO	TAL PEN
	Instrument ID: Einstein									

Lab Chronicle

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

Job ID: 400-220387-1

Client Sample ID: DUP-01
Date Collected: 05/22/22 16:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220387-7
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	579953	06/03/22 21:26	BPO	TAL PEN
	Instrument ID: Einstein									

Laboratory References:

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

QC Association Summary

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

Job ID: 400-220387-1

GC/MS VOA

Analysis Batch: 579953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220387-1	MW-1	Total/NA	Water	8260C	
400-220387-2	MW-2	Total/NA	Water	8260C	
400-220387-3	MW-7	Total/NA	Water	8260C	
400-220387-4	MW-9	Total/NA	Water	8260C	
400-220387-5	MW-15	Total/NA	Water	8260C	
400-220387-6	MW-16	Total/NA	Water	8260C	
400-220387-7	DUP-01	Total/NA	Water	8260C	
MB 400-579953/5	Method Blank	Total/NA	Water	8260C	
LCS 400-579953/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220313-B-9 MS	Matrix Spike	Total/NA	Water	8260C	
400-220313-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

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

Job ID: 400-220387-1

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

Lab Sample ID: MB 400-579953/5
Matrix: Water
Analysis Batch: 579953

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/03/22 13:08	1
Toluene	<1.0		1.0		ug/L			06/03/22 13:08	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 13:08	1
Xylenes, Total	<10		10		ug/L			06/03/22 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*06/03/22 13:08*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*06/03/22 13:08*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/03/22 13:08*	*1*

Lab Sample ID: LCS 400-579953/1002
Matrix: Water
Analysis Batch: 579953

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	46.3		ug/L		93	70 - 130		
Toluene			50.0	47.1		ug/L		94	70 - 130		
Ethylbenzene			50.0	51.1		ug/L		102	70 - 130		
Xylenes, Total			100	98.2		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*72 - 119*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

Lab Sample ID: 400-220313-B-9 MS
Matrix: Water
Analysis Batch: 579953

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	42.3		ug/L		85	56 - 142		
Toluene	<1.0		50.0	42.5		ug/L		85	65 - 130		
Ethylbenzene	<1.0		50.0	46.2		ug/L		92	58 - 131		
Xylenes, Total	<10		100	89.9		ug/L		90	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*72 - 119*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 400-220313-B-9 MSD
Matrix: Water
Analysis Batch: 579953

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	44.8		ug/L		90	56 - 142	6	30
Toluene	<1.0		50.0	45.3		ug/L		91	65 - 130	6	30
Ethylbenzene	<1.0		50.0	48.0		ug/L		96	58 - 131	4	30

QC Sample Results

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

Job ID: 400-220387-1

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

Lab Sample ID: 400-220313-B-9 MSD
Matrix: Water
Analysis Batch: 579953

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
Xylenes, Total	<10		100	93.5		ug/L		93	59 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 119*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

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

Chain of Custody Record

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Client Information	Sampler: Susan Gardner / Sean Clary	Lab PM: Edwards, Marty P Cheyenne Whitmore	Carrier Tracking No(s):	COC No: 400-105794-37669.1
Client Contact: Steve Varsa	Phone: 303 291 2239	E-Mail: cheyenne.whitmore@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): See ARF W-ERG-STN			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 303-291-2239(Tel)	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Standard Oil Com ~~CML Kinder Morgan New Mexico Extra Vials~~	Project #: 40005479			
Site: Standard Oil Com	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX 8260	8260C - BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
MW-1	5/22/2022	1520	G	Water			3		3	
MW-2	5/22/2022	1510	G	Water			3		3	
MW-7	5/22/2022	1507	G	Water			3		3	
MW-9	5/22/2022	1505	G	Water			3		3	
MW-15	5/22/2022	1500	G	Water			3		3	
MW-16	5/22/2022	1450	G	W			3		3	
DUP-01	5/22/2022	1405	G	W			3		3	

400-220387 COC

Preservation Codes:

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

Other:

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 5/23/2022 1215	Company Stantec	Received by: MD	Date/Time: 5/24/22 0902	Company EETS	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

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

Cooler Temperature(s) °C and Other Remarks: 1.2°C IR9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220387-1

Login Number: 220387 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C IR-9
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-220387-1
Project/Site: Standard Oil Com #1

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	03-31-23

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ANALYTICAL REPORT

PREPARED FOR

Attn: Steve Varsa
Stantec Consulting Services Inc
11311 Aurora Avenue
Des Moines, Iowa 50322-7904

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JOB DESCRIPTION

Standard Oil Com #1

JOB NUMBER

400-228564-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

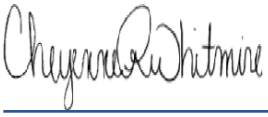
Eurofins Pensacola

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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11/29/2022 8:38:53 PM

Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

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

Laboratory Job ID: 400-228564-1

Table of Contents

Case Narrative

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

Job ID: 400-228564-1

Job ID: 400-228564-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228564-1

Receipt
The samples were received on 11/8/2022 9:32 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-3 (400-228564-5) and MW-11 (400-228564-12). Elevated reporting limits (RLs) are provided.

Method 8260C: One of three surrogate recoveries for the matrix spike (MS) for analytical batch 400-601330 were outside control limits. All of the target analytes are within acceptance limits. Therefore, the data is reported.

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

Detection Summary

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

Job ID: 400-228564-1

Client Sample ID: TB-01 — Lab Sample ID: 400-228564-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-228564-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	98		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	71		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 400-228564-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	4.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-228564-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.0		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-228564-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	730		5.0		ug/L	5		8260C	Total/NA
Ethylbenzene	250		5.0		ug/L	5		8260C	Total/NA
Xylenes, Total	220		50		ug/L	5		8260C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 400-228564-6

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-228564-7

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-228564-8

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-228564-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 400-228564-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	120		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	85		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 400-228564-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	20		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.9		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

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

Job ID: 400-228564-1

Client Sample ID: MW-11 Lab Sample ID: 400-228564-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2400		10		ug/L	10		8260C	Total/NA
Ethylbenzene	590		10		ug/L	10		8260C	Total/NA
Xylenes, Total	3000		100		ug/L	10		8260C	Total/NA

Client Sample ID: MW-12 Lab Sample ID: 400-228564-13

No Detections.

Client Sample ID: MW-13 Lab Sample ID: 400-228564-14

No Detections.

Client Sample ID: MW-14 Lab Sample ID: 400-228564-15

No Detections.

Client Sample ID: MW-15 Lab Sample ID: 400-228564-16

No Detections.

Client Sample ID: MW-16 Lab Sample ID: 400-228564-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

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

Job ID: 400-228564-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 400-228564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228564-1	TB-01	Water	11/06/22 14:30	11/08/22 09:32
400-228564-2	DUP-01	Water	11/06/22 12:00	11/08/22 09:32
400-228564-3	MW-1	Water	11/06/22 15:25	11/08/22 09:32
400-228564-4	MW-2	Water	11/06/22 15:35	11/08/22 09:32
400-228564-5	MW-3	Water	11/06/22 15:38	11/08/22 09:32
400-228564-6	MW-4	Water	11/06/22 15:47	11/08/22 09:32
400-228564-7	MW-6	Water	11/06/22 15:55	11/08/22 09:32
400-228564-8	MW-7	Water	11/06/22 16:02	11/08/22 09:32
400-228564-9	MW-8	Water	11/06/22 16:06	11/08/22 09:32
400-228564-10	MW-9	Water	11/06/22 15:11	11/08/22 09:32
400-228564-11	MW-10	Water	11/06/22 16:11	11/08/22 09:32
400-228564-12	MW-11	Water	11/06/22 16:19	11/08/22 09:32
400-228564-13	MW-12	Water	11/06/22 16:26	11/08/22 09:32
400-228564-14	MW-13	Water	11/06/22 16:31	11/08/22 09:32
400-228564-15	MW-14	Water	11/06/22 16:40	11/08/22 09:32
400-228564-16	MW-15	Water	11/06/22 16:44	11/08/22 09:32
400-228564-17	MW-16	Water	11/06/22 16:49	11/08/22 09:32

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: TB-01

Date Collected: 11/06/22 14:30
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 14:37	1
Toluene	<1.0		1.0		ug/L			11/18/22 14:37	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 14:37	1
Xylenes, Total	<10		10		ug/L			11/18/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/18/22 14:37*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/18/22 14:37*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/18/22 14:37*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: DUP-01

Date Collected: 11/06/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**98**		1.0		ug/L			11/18/22 12:07	1
Toluene	<1.0		1.0		ug/L			11/18/22 12:07	1
Ethylbenzene	**71**		1.0		ug/L			11/18/22 12:07	1
Xylenes, Total	<10		10		ug/L			11/18/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*72 - 119*		*11/18/22 12:07*	*1*
Dibromofluoromethane	*85*		*75 - 126*		*11/18/22 12:07*	*1*
Toluene-d8 (Surr)	*113*		*64 - 132*		*11/18/22 12:07*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-1

Date Collected: 11/06/22 15:25
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		1.0		ug/L			11/18/22 12:32	1
Toluene	<1.0		1.0		ug/L			11/18/22 12:32	1
Ethylbenzene	**4.5**		1.0		ug/L			11/18/22 12:32	1
Xylenes, Total	<10		10		ug/L			11/18/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/18/22 12:32*	*1*
Dibromofluoromethane	*86*		*75 - 126*		*11/18/22 12:32*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/18/22 12:32*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-2

Date Collected: 11/06/22 15:35
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.0**		1.0		ug/L			11/18/22 12:57	1
Toluene	<1.0		1.0		ug/L			11/18/22 12:57	1
Ethylbenzene	**1.2**		1.0		ug/L			11/18/22 12:57	1
Xylenes, Total	<10		10		ug/L			11/18/22 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/18/22 12:57*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*11/18/22 12:57*	*1*
Toluene-d8 (Surr)	*113*		*64 - 132*		*11/18/22 12:57*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-3

Date Collected: 11/06/22 15:38
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**730**		5.0		ug/L			11/18/22 20:52	5
Toluene	<5.0		5.0		ug/L			11/18/22 20:52	5
Ethylbenzene	**250**		5.0		ug/L			11/18/22 20:52	5
Xylenes, Total	**220**		50		ug/L			11/18/22 20:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*72 - 119*		*11/18/22 20:52*	*5*
Dibromofluoromethane	*86*		*75 - 126*		*11/18/22 20:52*	*5*
Toluene-d8 (Surr)	*85*		*64 - 132*		*11/18/22 20:52*	*5*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-4

Date Collected: 11/06/22 15:47
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-6

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 15:02	1
Toluene	<1.0		1.0		ug/L			11/18/22 15:02	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 15:02	1
Xylenes, Total	<10		10		ug/L			11/18/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/18/22 15:02*	*1*
Dibromofluoromethane	*93*		*75 - 126*		*11/18/22 15:02*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/18/22 15:02*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-6

Date Collected: 11/06/22 15:55
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 15:27	1
Toluene	<1.0		1.0		ug/L			11/18/22 15:27	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 15:27	1
Xylenes, Total	<10		10		ug/L			11/18/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/18/22 15:27*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/18/22 15:27*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/18/22 15:27*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-7

Date Collected: 11/06/22 16:02
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-8

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 15:52	1
Toluene	<1.0		1.0		ug/L			11/18/22 15:52	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 15:52	1
Xylenes, Total	<10		10		ug/L			11/18/22 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*72 - 119*		*11/18/22 15:52*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*11/18/22 15:52*	*1*
Toluene-d8 (Surr)	*119*		*64 - 132*		*11/18/22 15:52*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-8

Date Collected: 11/06/22 16:06
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.7**		1.0		ug/L			11/18/22 16:17	1
Toluene	<1.0		1.0		ug/L			11/18/22 16:17	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 16:17	1
Xylenes, Total	<10		10		ug/L			11/18/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/18/22 16:17*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/18/22 16:17*	*1*
Toluene-d8 (Surr)	*131*		*64 - 132*		*11/18/22 16:17*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-9

Date Collected: 11/06/22 15:11
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-10

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**120**		1.0		ug/L			11/18/22 16:42	1
Toluene	<1.0		1.0		ug/L			11/18/22 16:42	1
Ethylbenzene	**85**		1.0		ug/L			11/18/22 16:42	1
Xylenes, Total	<10		10		ug/L			11/18/22 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/18/22 16:42*	*1*
Dibromofluoromethane	*86*		*75 - 126*		*11/18/22 16:42*	*1*
Toluene-d8 (Surr)	*109*		*64 - 132*		*11/18/22 16:42*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-10

Date Collected: 11/06/22 16:11
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-11

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**20**		1.0		ug/L			11/18/22 17:07	1
Toluene	<1.0		1.0		ug/L			11/18/22 17:07	1
Ethylbenzene	**1.9**		1.0		ug/L			11/18/22 17:07	1
Xylenes, Total	<10		10		ug/L			11/18/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*11/18/22 17:07*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*11/18/22 17:07*	*1*
Toluene-d8 (Surr)	*88*		*64 - 132*		*11/18/22 17:07*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-11

Date Collected: 11/06/22 16:19
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-12

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2400**		10		ug/L			11/18/22 21:17	10
Toluene	<10		10		ug/L			11/18/22 21:17	10
Ethylbenzene	**590**		10		ug/L			11/18/22 21:17	10
Xylenes, Total	**3000**		100		ug/L			11/18/22 21:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/18/22 21:17*	*10*
Dibromofluoromethane	*85*		*75 - 126*		*11/18/22 21:17*	*10*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/18/22 21:17*	*10*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-12

Date Collected: 11/06/22 16:26
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-13

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 17:32	1
Toluene	<1.0		1.0		ug/L			11/18/22 17:32	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 17:32	1
Xylenes, Total	<10		10		ug/L			11/18/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/18/22 17:32*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*11/18/22 17:32*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*11/18/22 17:32*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-13

Date Collected: 11/06/22 16:31
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-14

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 17:57	1
Toluene	<1.0		1.0		ug/L			11/18/22 17:57	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 17:57	1
Xylenes, Total	<10		10		ug/L			11/18/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/18/22 17:57*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/18/22 17:57*	*1*
Toluene-d8 (Surr)	*85*		*64 - 132*		*11/18/22 17:57*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-14

Date Collected: 11/06/22 16:40
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-15

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 18:22	1
Toluene	<1.0		1.0		ug/L			11/18/22 18:22	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 18:22	1
Xylenes, Total	<10		10		ug/L			11/18/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/18/22 18:22*	*1*
Dibromofluoromethane	*75*		*75 - 126*		*11/18/22 18:22*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/18/22 18:22*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-15

Date Collected: 11/06/22 16:44
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-16

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 18:47	1
Toluene	<1.0		1.0		ug/L			11/18/22 18:47	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 18:47	1
Xylenes, Total	<10		10		ug/L			11/18/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*72 - 119*		*11/18/22 18:47*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/18/22 18:47*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*11/18/22 18:47*	*1*

Client Sample Results

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

Job ID: 400-228564-1

Client Sample ID: MW-16

Date Collected: 11/06/22 16:49
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-17

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 19:12	1
Toluene	<1.0		1.0		ug/L			11/18/22 19:12	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 19:12	1
Xylenes, Total	<10		10		ug/L			11/18/22 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/18/22 19:12*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/18/22 19:12*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/18/22 19:12*	*1*

Definitions/Glossary

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

Job ID: 400-228564-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Lab Chronicle

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

Job ID: 400-228564-1

Client Sample ID: TB-01
Date Collected: 11/06/22 14:30
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-1
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	601330	11/18/22 14:37	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: DUP-01
Date Collected: 11/06/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-2
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	601330	11/18/22 12:07	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-1
Date Collected: 11/06/22 15:25
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	601330	11/18/22 12:32	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-2
Date Collected: 11/06/22 15:35
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-4
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	601330	11/18/22 12:57	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-3
Date Collected: 11/06/22 15:38
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-5
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		5	5 mL	5 mL	601330	11/18/22 20:52	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-4
Date Collected: 11/06/22 15:47
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-6
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	601330	11/18/22 15:02	WPD	EET PEN
	Instrument ID: Argo									

Lab Chronicle

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

Job ID: 400-228564-1

Client Sample ID: MW-6
Date Collected: 11/06/22 15:55
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-7
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	601330	11/18/22 15:27	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-7
Date Collected: 11/06/22 16:02
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-8
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	601330	11/18/22 15:52	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-8
Date Collected: 11/06/22 16:06
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	601330	11/18/22 16:17	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-9
Date Collected: 11/06/22 15:11
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-10
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	601330	11/18/22 16:42	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-10
Date Collected: 11/06/22 16:11
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-11
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	601330	11/18/22 17:07	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-11
Date Collected: 11/06/22 16:19
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-12
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		10	5 mL	5 mL	601330	11/18/22 21:17	WPD	EET PEN
	Instrument ID: Argo									

Lab Chronicle

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

Job ID: 400-228564-1

Client Sample ID: MW-12
Date Collected: 11/06/22 16:26
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-13
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	601330	11/18/22 17:32	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-13
Date Collected: 11/06/22 16:31
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-14
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	601330	11/18/22 17:57	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-14
Date Collected: 11/06/22 16:40
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-15
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	601330	11/18/22 18:22	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-15
Date Collected: 11/06/22 16:44
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-16
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	601330	11/18/22 18:47	WPD	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-16
Date Collected: 11/06/22 16:49
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228564-17
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	601330	11/18/22 19:12	WPD	EET PEN
	Instrument ID: Argo									

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

QC Association Summary

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

Job ID: 400-228564-1

GC/MS VOA

Analysis Batch: 601330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228564-1	TB-01	Total/NA	Water	8260C	
400-228564-2	DUP-01	Total/NA	Water	8260C	
400-228564-3	MW-1	Total/NA	Water	8260C	
400-228564-4	MW-2	Total/NA	Water	8260C	
400-228564-5	MW-3	Total/NA	Water	8260C	
400-228564-6	MW-4	Total/NA	Water	8260C	
400-228564-7	MW-6	Total/NA	Water	8260C	
400-228564-8	MW-7	Total/NA	Water	8260C	
400-228564-9	MW-8	Total/NA	Water	8260C	
400-228564-10	MW-9	Total/NA	Water	8260C	
400-228564-11	MW-10	Total/NA	Water	8260C	
400-228564-12	MW-11	Total/NA	Water	8260C	
400-228564-13	MW-12	Total/NA	Water	8260C	
400-228564-14	MW-13	Total/NA	Water	8260C	
400-228564-15	MW-14	Total/NA	Water	8260C	
400-228564-16	MW-15	Total/NA	Water	8260C	
400-228564-17	MW-16	Total/NA	Water	8260C	
MB 400-601330/4	Method Blank	Total/NA	Water	8260C	
LCS 400-601330/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228564-4 MS	MW-2	Total/NA	Water	8260C	
400-228564-4 MSD	MW-2	Total/NA	Water	8260C	

QC Sample Results

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

Job ID: 400-228564-1

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

Lab Sample ID: MB 400-601330/4
Matrix: Water
Analysis Batch: 601330

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 11:17	1
Toluene	<1.0		1.0		ug/L			11/18/22 11:17	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 11:17	1
Xylenes, Total	<10		10		ug/L			11/18/22 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*72 - 119*		*11/18/22 11:17*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/18/22 11:17*	*1*
Toluene-d8 (Surr)	*105*		*64 - 132*		*11/18/22 11:17*	*1*

Lab Sample ID: LCS 400-601330/1002
Matrix: Water
Analysis Batch: 601330

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	54.0		ug/L		108	70 - 130		
Toluene			50.0	59.5		ug/L		119	70 - 130		
Ethylbenzene			50.0	56.2		ug/L		112	70 - 130		
Xylenes, Total			100	109		ug/L		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*115*		*72 - 119*
Dibromofluoromethane	*87*		*75 - 126*
Toluene-d8 (Surr)	*114*		*64 - 132*

Lab Sample ID: 400-228564-4 MS
Matrix: Water
Analysis Batch: 601330

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	2.0		50.0	53.7		ug/L		103	56 - 142		
Toluene	<1.0		50.0	53.1		ug/L		106	65 - 130		
Ethylbenzene	1.2		50.0	53.6		ug/L		105	58 - 131		
Xylenes, Total	<10		100	108		ug/L		108	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*136*	*S1+*	*72 - 119*
Dibromofluoromethane	*92*		*75 - 126*
Toluene-d8 (Surr)	*112*		*64 - 132*

Lab Sample ID: 400-228564-4 MSD
Matrix: Water
Analysis Batch: 601330

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.0		50.0	52.0		ug/L		100	56 - 142	3	30
Toluene	<1.0		50.0	56.0		ug/L		112	65 - 130	5	30
Ethylbenzene	1.2		50.0	51.3		ug/L		100	58 - 131	4	30

QC Sample Results

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

Job ID: 400-228564-1

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

Lab Sample ID: 400-228564-4 MSD
Matrix: Water
Analysis Batch: 601330

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	<10		100	100		ug/L		100	59 - 130	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 119*
Dibromofluoromethane	*87*		*75 - 126*
Toluene-d8 (Surr)	*118*		*64 - 132*

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: SRC	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114526-37682.1
Client Contact: Steve Varsa	Phone: 913 461 C201	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: Kan	Page: Page 1 of 2
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040023			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH -13			
Project Name: Standard Oil Com #1.00 SemiAnnual	Project #: 40005479			
Site: SOC	SSOW#:			

Analysis Requested

400-228564 COC

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

STN-14

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TB-01	11/6/2022	1430	G	Water			2	2	
DUP-01	11/6/2022	—	G	Water			3	3	
MW-1	11/6/2022	1525	G	Water			3	3	
MW-2	11/6/2022	1535	G	Water			3	3	
MW-3	11/6/2022	1558	G	Water			3	3	
MW-4	11/6/2022	1547	G	Water			3	3	
MW-6	11/6/2022	1555	G	Water			3	3	
MW-7	11/6/2022	1602	G	Water			3	3	
MW-8	11/6/2022	1606	G	Water			3	3	
MW-9	11/6/2022	1511	G	Water			3	3	
MW-10	11/6/2022	1611	G	Water			3	3	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/7/2022 1200	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-8-22 9:32	Company

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

Cooler Temperature(s) °C and Other Remarks: 0.0 IR

Ver: 06/08/2021

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: SRL	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114526-37682.2
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 2 of 2
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040023			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH -13			
Project Name: Standard Oil Com #1.00 SemiAnnual	Project #: 40005479			
Site: STN -14, SDC	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-11	11/6/2022	1619	G	Water	—	—	3	3	
MW-12	11/6/2022	1626	G	Water	—	—	3	3	
MW-13	11/6/2022	1631	G	Water	—	—	3	3	
MW-14	11/6/2022	1640	G	Water	—	—	3	3	
MW-15	11/6/2022	1644	G	Water	—	—	3	3	
MW-16	11/6/2022	1649	G	Water	—	—	3	3	

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/7/2022 1200	STN			
2						
3				[signature]	11-8-22 9:32	

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

Cooler Temperature(s) °C and Other Remarks: 0.0 ; 1.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228564-1

Login Number: 228564 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-8
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-228564-1
Project/Site: Standard Oil Com #1

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 202116

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 202116
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of the 2022 ANNUAL GROUNDWATER REPORT: Content satisfactory 1. Continue to follow "Planned Future Activities" as noted within this report. 2. Please provide any evidence EPNG may have toward a potential source mentioned that may be contributing to the impacts within MW #3 & #11. 3. Submit next annual groundwater report to OCD no later than April 1, 2024.	5/17/2023