2020 ANNUAL GROUNDWATER REPORT

Sandoval GC A#1A
Incident Number: nAUTOfAB000635
NMOCD Case#: 3RP-235-0
Meter Code: 89620
T30N, R9W, Sec 35, Unit C

SITE DETAILS

2020 Annual Groundwater Report for Sandoval GC A#1A has been accepted for the record.

Site Location: Latitude: 36.772101, Longitude: -107.753601
Land Type: Federal
Operator: Simcoe LLC

RECEIVED
By Mike Buchanan at 3:28 pm, Apr 30, 2024

SITE BACKGROUND

Environmental Remediation activities at the Sandoval GC A#1A (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 (EPCPG) program methods. Currently, the Site is operated by Simcoe LLC (Simcoe), and is active. According to NMOCD records, Simcoe assumed operation of the Site from BP America Production Company (BP), on February 28, 2020.

The Site is located on Federal land. An initial site assessment was completed in May 1994. Two excavations were completed at the site, the first in September 1994, removing approximately 50 cubic yards, and the second in July 1997, removing 504 cubic yards. The total excavated depth is approximately 28 feet below ground surface (bgs). A monitoring well was installed in 1994 (MW-1). Additional borings were advanced around the former pit in1995 and south of the pit in 1997 (PH-2). In October 2001, an oxygen release compound (ORC) nutrient injection was conducted. Soil boring SB-1 and monitoring wells MW-2 through MW-5 were installed 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.

NMOCD records indicate that BP had a release at the site as early as 2003. BP documented a release at a compressor discharge pit, subsequently excavated 50 cubic yards of soil, land-farmed the excavated soil on site, and advanced confirmation soil boring BPBH-1. BP also excavated approximately 12 cubic yards of discolored soil during closure of a 95 barrel below ground tank in October 2017. The NMOCD established Case number 3RP-1057 for the BP release(s) in 2018. Four monitoring wells (BPMW1 through BPMW-4) were installed by BP from August to December 2011. Monitoring well BPMW-2 was documented as having 2.7 feet of product on November 8, 2017, although no groundwater sampling data from the BP wells are in NMOCD files. On April 13, 2018, the NMOCD approved a BP plan to install a soil vapor extraction (SVE) system. In October 2018, Stantec noted a skid-mounted SVE blower had been placed on the western portion of the Site and connected to BPMW-2. Information on the operation or performance of the SVE system has not been found in NMOCD files.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to the NMOCD on May 5, 2020, and November 5, 2020, prior to initiating groundwater sampling activities at the Site. Copies of the 2020 NMOCD notifications are provided in Appendix A. On May 15 and November 13, 2020, water levels were gauged at MW-1 through MW-5. No free

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product was detected in site monitoring wells during water level gauging in 2020. The water column observed in MW-3 during the November 13, 2020 sampling event was insufficient for sampling (less than 40mL of water in the well). Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above the bottom of the monitoring 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-TestAmerica Laboratories, Inc. 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. The unused sample water was combined in a waste container and taken to Basin Disposal, Inc. (Basin) in Bloomfield, New Mexico for disposal. Waste disposal documentation is included as Appendix B.

SUMMARY TABLES

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

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2020 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 east during 2020 (see Figure 4 and 6).
- Groundwater samples collected in May 2020 from MW-2, MW-4, and MW-5 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. The groundwater sample collected in November 2020 from MW-2 exceeded the NMWQCC standard for benzene in groundwater. Benzene was either below the NMWQCC standard or not detected in the samples collected from remaining Site monitoring wells during 2020.
- Groundwater samples collected in 2020 from MW-2 exceeded the NMWQCC standard (750 µg/L) for toluene in groundwater. Toluene was either below the NMWQCC standard or not detected in the remaining samples collected from Site monitoring wells during 2020.
- Groundwater sample collected in May 2020 from MW-2 exceeded the NMWQCC

standard (750 µg/L) for ethylbenzene in groundwater. Ethylbenzene was either below the NMWQCC standard or not detected in the remaining samples collected from Site monitoring wells during 2020.

- Groundwater samples collected in 2020 from MW-2 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Total xylenes were either below the NMWQCC standard or not detected in the remaining samples collected from Site monitoring wells during 2020.
- A field duplicate was collected from monitoring well MW-5 and MW-4 during the May 2020 and November 2020 sampling events, respectively. There were no significant differences in BTEX constituent concentrations between the primary and duplicate samples.

PLANNED FUTURE ACTIVITIES

EPCGP respectfully requests a response from NMOCD to the April 2019 Site Conceptual Model and No Further Action request. No further activities beyond routine semi-annual groundwater monitoring are planned at this time, as EPCGP believes the remaining hydrocarbon impacts are associated with the BP release(s). Monitoring wells sampled during these groundwater monitoring events will be analyzed for BTEX constituents using EPA Method 8260.

TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Sandoval GC A #1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	05/30/95	5500	3980	579	4780
MW-1	04/12/96	10400	8960	925	10100
MW-1	07/26/96	8980	7980	1000	9430
MW-1	10/18/96	11050	9960	900	10700
MW-1	01/21/97	7700	7210	787	8430
MW-1	04/16/97	8900	8680	996	9250
MW-1	07/11/97	8240	7850	709	8230
MW-1	09/04/97	4420	2370	850	9660
MW-1	10/22/97	3460	39.6	714	7690
MW-1	01/06/98	3850	194	795	8570
MW-1	04/23/98	4330	406	783	7220
MW-1	04/19/99	4300	1260	629	7440
MW-1	04/13/00	2300	1500	590	5900
MW-1	05/30/01	2800	710	560	5200
MW-1	10/08/01	NS	NS	NS	NS
MW-1	05/16/02	3000	1500	440	5300
MW-1	05/21/03	3850	601	443	6360
MW-1	11/16/04	2490	30.9	346	2860
MW-1	11/08/05	338	8.5	80.1	757
MW-1	11/08/06	198	3.4	14.9	83.6
MW-1	11/29/07	441	3.8	52.2	72.2
MW-1	11/18/08	120	<2	17.9	8.3
MW-1	11/04/09	88.4	<1	14.8	4.3
MW-1	06/03/10	NS	NS	NS	NS
MW-1	11/09/10	54	<2	8.7	12.7
MW-1	11/16/11	31.3	<1	14.2	8.9
MW-1	06/08/13	0.27 J	<0.30	<0.20	<0.23
MW-1	09/09/13	0.36 J	<0.30	<0.20	<0.23
MW-1	12/12/13	0.31 J	<0.38	<0.20	<0.65
MW-1	04/02/14	1.1 J	1.7 J	<0.20	1.4 J
MW-1	10/23/14	3.3	<0.70	3.8	<1.6
MW-1	05/30/15	5.7	<5.0	5.3	6
MW-1	11/20/15	8.3	<5.0	5.2	14
MW-1	04/19/16	<2.0	<10	<2.0	<10
MW-1	10/16/16	3.2	<5.0	2	<5.0
MW-1	06/08/17	5.2	<5.0	2.4	7.9
MW-1	11/11/17	10	<1.0	<1.0	<10
MW-1	05/16/18	9.3	1.4	1.3	<10
MW-1	10/28/18	1.9	<1.0	3	<10
MW-1	05/22/19	<1.0	<1.0	<1.0	<10
MW-1	11/12/19	<1.0	<1.0	<1.0	<10
MW-1	05/15/20	<1.0	<1.0	<1.0	<10
MW-1	11/13/20	<1.0	<1.0	<1.0	<10

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Sandoval GC A #1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	11/20/15	2400	3700	530	7400
MW-2[1]	04/19/16[1]	6600	8200	1200	16000
MW-2	10/16/16	NS	NS	NS	NS
MW-2	06/08/17	NS	NS	NS	NS
MW-2	11/11/17	3500	4300	940	12000
MW-2	05/16/18	4000	3700	820	12000
DP-01(MW-2)*	05/16/18	3700	3400	690	11000
MW-2	10/28/18	4600	4800	910	16000
DUP-01(MW-2)*	10/28/18	4700	4600	930	14000
MW-2	05/22/19	4700	3300	780	9600
MW-2	11/12/19	9500	5400	1000	13000
MW-2	05/15/20	7500	5200	1000	12000
MW-2	11/13/20	8800	4700	<100	11000
MW-3	11/20/15	55	62	16	140
MW-3	04/19/16	1.6	<5.0	1.8	40
MW-3	10/16/16	<1.0	<5.0	<1.0	<5.0
MW-3	06/08/17	<1.0	<5.0	<1.0	<5.0
MW-3	11/11/17	23	27	2	18
MW-3	05/16/18	<1.0	<1.0	<1.0	<10
MW-3	10/28/18	<1.0	<1.0	<1.0	<10
MW-3	05/22/19	<1.0	<1.0	<1.0	<10
MW-3	11/12/19	<1.0	<1.0	<1.0	<10
MW-3	05/15/20	2.5	1.4	<1.0	<10
MW-3	11/13/20	NS	NS	NS	NS
MW-4	11/23/15	490	<10	4	140
MW-4[1]	04/19/16[1]	3.2	<5.0	<1.0	10
MW-4	10/16/16	22	<5.0	<1.0	9.6
MW-4	06/08/17	33	<5.0	<1.0	<5.0
MW-4	11/11/17	7	<1.0	<1.0	<10
MW-4	05/16/18	1.1	<1.0	<1.0	<10
MW-4	10/28/18	14	<1.0	<1.0	<10
MW-4	05/22/19	34	<1.0	<1.0	<10
DUP-1(MW-4)*	05/22/19	47	<1.0	<1.0	<10
MW-4	11/12/19	17	<1.0	<1.0	<10
DUP-1(MW-4)*	11/12/19	16	<1.0	<1.0	<10
MW-4	05/15/20	41	<1.0	<1.0	<10
MW-4	11/13/20	4.1	<1.0	<1.0	<10
DUP-1(MW-4)*	11/13/20	3.6	<1.0	<1.0	<10
MW-5	11/23/15	7500	17000	590	7100
MW-5	04/19/16	5800	1600	680	6100

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Sandoval GC A #1A					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-5	10/16/16	4700	6700	1000	10000
MW-5	06/08/17	4800	6000	1600	16000
MW-5	11/11/17	3800	4300	1100	11000
MW-5	05/16/18	4100	2800	850	9100
MW-5	10/28/18	2800	1700	590	6900
MW-5	05/22/19	470	<10	<10	880
MW-5	11/12/19	58	<1.0	<1.0	<10
MW-5	05/15/20	110	<1.0	<1.0	<10
DUP-01(MW-5)*	05/15/20	130	1.3	<1.0	<10
MW-5	11/13/20	<1.0	<1.0	<1.0	<10

Notes:
"µg/L" = micrograms per liter
Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
"NS" = Monitoring well not sampled
[1] = The groundwater sample analytical results for MW-2 and MW-4 were switched for this sampling event, as discussed in the 2016 Annual Groundwater Report for this Site.
*Field Duplicate results presented immediately below primary sample result.

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Sandoval GC A #1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/30/95	5716.63	NR	34.49		5682.14
MW-1	04/12/96	5716.63	NR	35.39		5681.24
MW-1	07/26/96	5716.63	NR	35.61		5681.02
MW-1	10/18/96	5716.63	NR	35.79		5680.84
MW-1	01/21/97	5716.63	NR	35.80		5680.83
MW-1	04/16/97	5716.63	NR	35.99		5680.64
MW-1	07/11/97	5716.63	NR	36.05		5680.58
MW-1	09/04/97	5716.63	NR	35.18		5681.45
MW-1	10/22/97	5716.63	NR	35.14		5681.49
MW-1	01/06/98	5716.63	NR	35.10		5681.53
MW-1	04/23/98	5716.63	NR	35.15		5681.48
MW-1	04/19/99	5716.63	NR	35.10		5681.53
MW-1	04/13/00	5716.63	NR	34.70		5681.93
MW-1	05/30/01	5716.63	NR	34.97		5681.66
MW-1	10/08/01	5716.63	NR	35.19		5681.44
MW-1	05/16/02	5716.63	NR	35.11		5681.52
MW-1	05/21/03	5716.63	ND	35.26		5681.37
MW-1	11/16/04	5716.63	ND	34.84		5681.79
MW-1	11/08/05	5716.63	ND	33.87		5682.76
MW-1	11/08/06	5716.63	ND	34.02		5682.61
MW-1	11/29/07	5716.63	ND	33.29		5683.34
MW-1	11/18/08	5716.63	ND	33.41		5683.22
MW-1	11/04/09	5716.63	ND	33.64		5682.99
MW-1	06/03/10	5716.63	ND	33.46		5683.17
MW-1	11/09/10	5716.63	ND	32.94		5683.69
MW-1	11/16/11	5716.63	ND	33.28		5683.35
MW-1	06/08/13	5716.63	ND	33.67		5682.96
MW-1	09/09/13	5716.63	ND	33.78		5682.85
MW-1	12/12/13	5716.63	ND	33.80		5682.83
MW-1	04/02/14	5716.63	ND	33.85		5682.78
MW-1	10/23/14	5716.63	ND	34.04		5682.59
MW-1	05/30/15	5716.63	ND	34.19		5682.44
MW-1	11/20/15	5716.63	ND	34.33		5682.30
MW-1	04/19/16	5716.63	ND	34.52		5682.11
MW-1	10/16/16	5716.63	ND	34.17		5682.46
MW-1	06/08/17	5716.63	ND	34.71		5681.92
MW-1	11/11/17	5716.63	ND	34.27		5682.36
MW-1	05/16/18	5716.63	ND	34.21		5682.42
MW-1	10/28/18	5716.63	ND	34.44		5682.19

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Sandoval GC A #1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/22/19	5716.63	ND	34.65		5681.98
MW-1	11/12/19	5716.63	ND	34.75		5681.88
MW-1	05/15/20	5716.63	ND	34.92		5681.71
MW-1	11/13/20	5716.63	ND	35.11		5681.52
MW-2	11/20/15	5717.56	ND	35.29		5682.27
MW-2	04/19/16	5717.56	ND	35.49		5682.07
MW-2	10/16/16	5717.56	35.60	36.03	0.43	5681.85
MW-2	06/08/17	5717.56	35.50	36.25	0.75	5681.87
MW-2	11/11/17	5717.56	ND	35.19		5682.37
MW-2	05/16/18	5717.56	ND	35.14		5682.42
MW-2	10/28/18	5717.56	ND	35.35		5682.21
MW-2	05/22/19	5717.56	ND	35.59		5681.97
MW-2	11/12/19	5717.56	ND	35.72		5681.84
MW-2	05/15/20	5717.56	ND	35.88		5681.68
MW-2	11/13/20	5717.56	ND	36.05		5681.51
MW-3	11/20/15	5718.73	ND	37.16		5681.57
MW-3	04/19/16	5718.73	ND	42.25		5676.48
MW-3	10/16/16	5718.73	ND	44.19		5674.54
MW-3	06/08/17	5718.73	ND	44.87		5673.86
MW-3	11/11/17	5718.73	ND	43.82		5674.91
MW-3	05/16/18	5718.73	ND	44.50		5674.23
MW-3	10/28/18	5718.73	ND	45.47		5673.26
MW-3	05/22/19	5718.73	ND	44.62		5674.11
MW-3	11/12/19	5718.73	ND	46.55		5672.18
MW-3	05/15/20	5718.73	ND	46.12		5672.61
MW-3	11/13/20	5718.73	ND	46.31		5672.42
MW-4	11/20/15	NR	NR	NR		NR
MW-4	11/23/15	5718.15	ND	44.93		5673.22
MW-4	04/19/16	5718.15	ND	44.84		5673.31
MW-4	10/16/16	5718.15	ND	45.02		5673.13
MW-4	06/08/17	5718.15	ND	45.18		5672.97
MW-4	11/11/17	5718.15	ND	45.18		5672.97
MW-4	05/16/18	5718.15	ND	45.16		5672.99
MW-4	10/28/18	5718.15	ND	45.48		5672.67
MW-4	05/22/19	5718.15	ND	45.07		5673.08
MW-4	11/12/19	5718.15	ND	45.64		5672.51

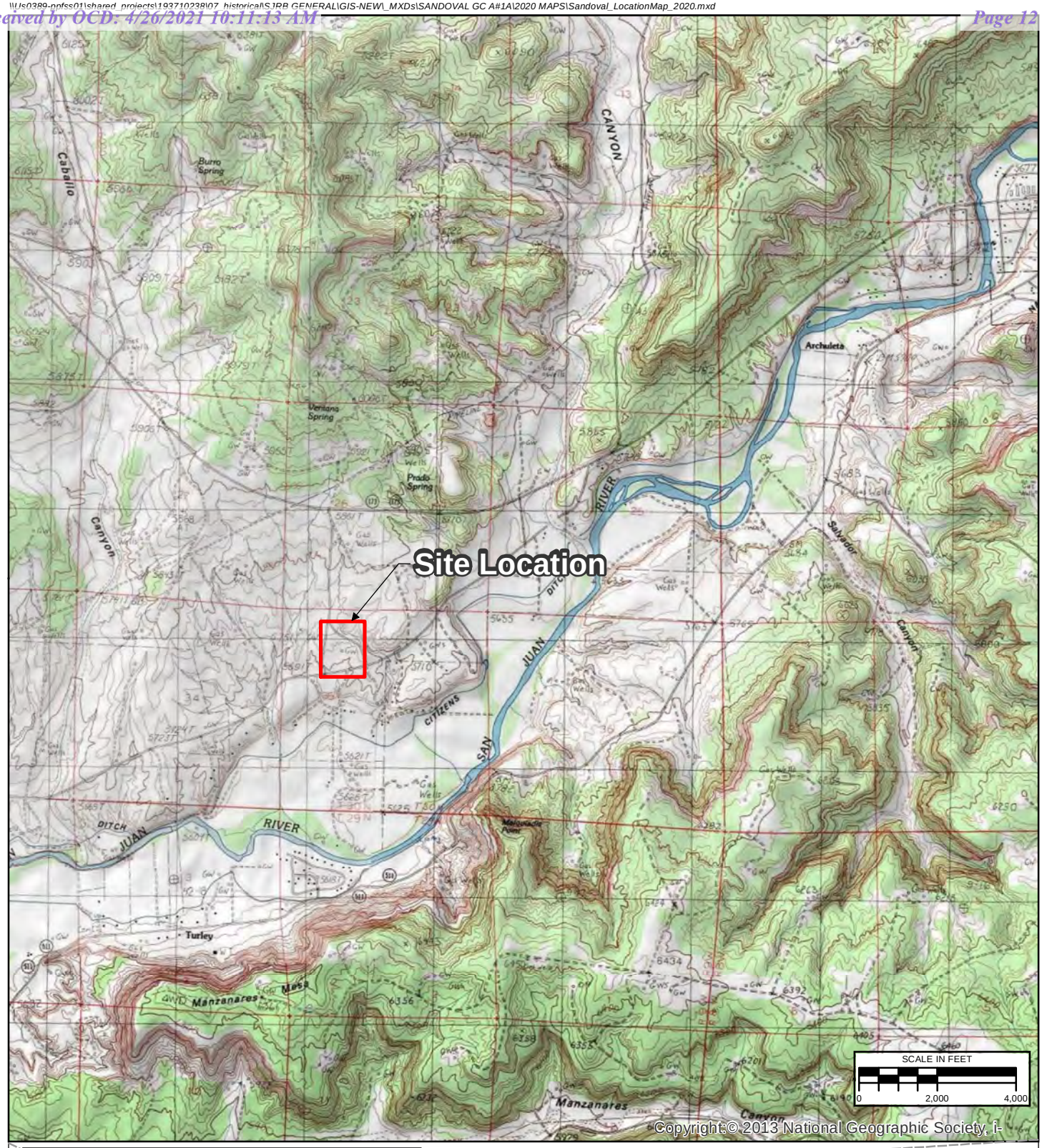
TABLE 2 - GROUNDWATER ELEVATION RESULTS

Sandoval GC A #1A						
Location	**Date**	**TOC**	**Depth to LNAPL (ft.)**	**Depth to Water (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-4	05/15/20	5718.15	ND	45.46		5672.69
MW-4	11/13/20	5718.15	ND	45.67		5672.48
MW-5	11/20/15	NR	NR	NR		NR
MW-5	11/23/15	5714.35	ND	41.16		5673.19
MW-5	04/19/16	5714.35	ND	41.15		5673.20
MW-5	10/16/16	5714.35	ND	42.25		5672.10
MW-5	06/08/17	5714.35	ND	41.38		5672.97
MW-5	11/11/17	5714.35	ND	41.36		5672.99
MW-5	05/16/18	5714.35	ND	41.35		5673.00
MW-5	10/28/18	5714.35	ND	41.68		5672.67
MW-5	05/22/19	5714.35	ND	41.27		5673.08
MW-5	11/12/19	5714.35	ND	41.79		5672.56
MW-5	05/15/20	5714.35	ND	41.64		5672.71
MW-5	11/13/20	5714.35	ND	41.79		5672.56

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

Received by OCD: 4/26/2021 10:11:13 AM



N

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

TITLE
SITE LOCATION

Stantec

PROJECT
SANDOVAL GC A#1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

FIGURE
1

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FORMER BP SOIL LANDFARM (2003-2005)

BPMW-1

FORMER SEPARATOR TANK CLOSED 10/2003

MW-3

FORMER BERM

FORMER EPC PIT - EXCAVATED APPROXIMATELY 28 FEET DEEP

MW-2

SB-1

MW-1

MW-4

BPBH-1

BPMW-2

BERM

BP/SIMCO REMEDIATION SYSTEM

SEPARATOR

FORMER COMPRESSOR PIT CLOSED 10/2003

MW-5

FORMER 95 BBL BELOW-GRADE TANK REMOVED 10/2012

METER HOUSE

TANK

COMPRESSOR

BPMW-4

FIBERGLASS LINE

SOIL EXCAVATION (10/2017)

TANK

BPMW-3

ELECTRIC BOXES

FORMER PRODUCTION TANK (CLOSED 10/2003)

PH-2 (DRY - REFUSAL AT 38' BGS)

WELLHEAD

SMA BENCHMARK
ELEV. 5716.38'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

100' FORMER BP BLOW PIT (CLOSED 10/2003)

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

LEGEND:

- 6508 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT
- GAS — NATURAL GAS LINE
- OVHD — OVERHEAD ELECTRIC LINE
- MONITORING WELL
- SOIL BORING
- BP/SIMCO MONITORING WELL
- OTHER SOIL BORING
- SMA BENCHMARK
- 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

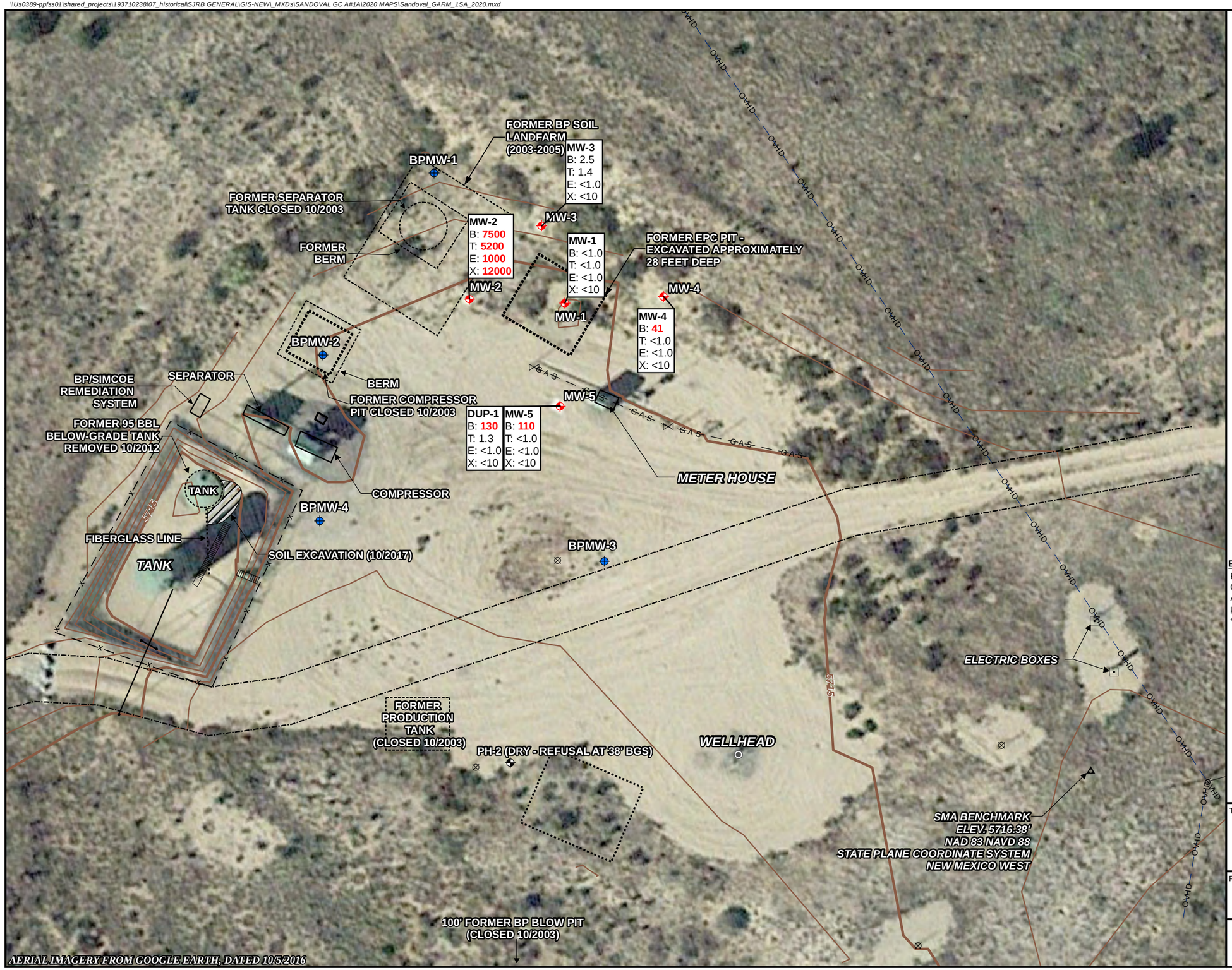
PROJECT:

SANDOVAL GC A#1A
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 2

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SANDOVAL GC A#1A\2020 MAPS\Sandoval_GARM_1SA_2020.mxd



LEGEND:

- 6508 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT
- GAS — NATURAL GAS LINE
- OVHD — OVERHEAD ELECTRIC LINE
- MONITORING WELL
- BP/SIMCOE MONITORING WELL
- SMA BENCHMARK
- RIG ANCHOR

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
<10 = BELOW REPORTING LIMIT

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

N

SCALE IN FEET
0 30 60

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

TITLE:

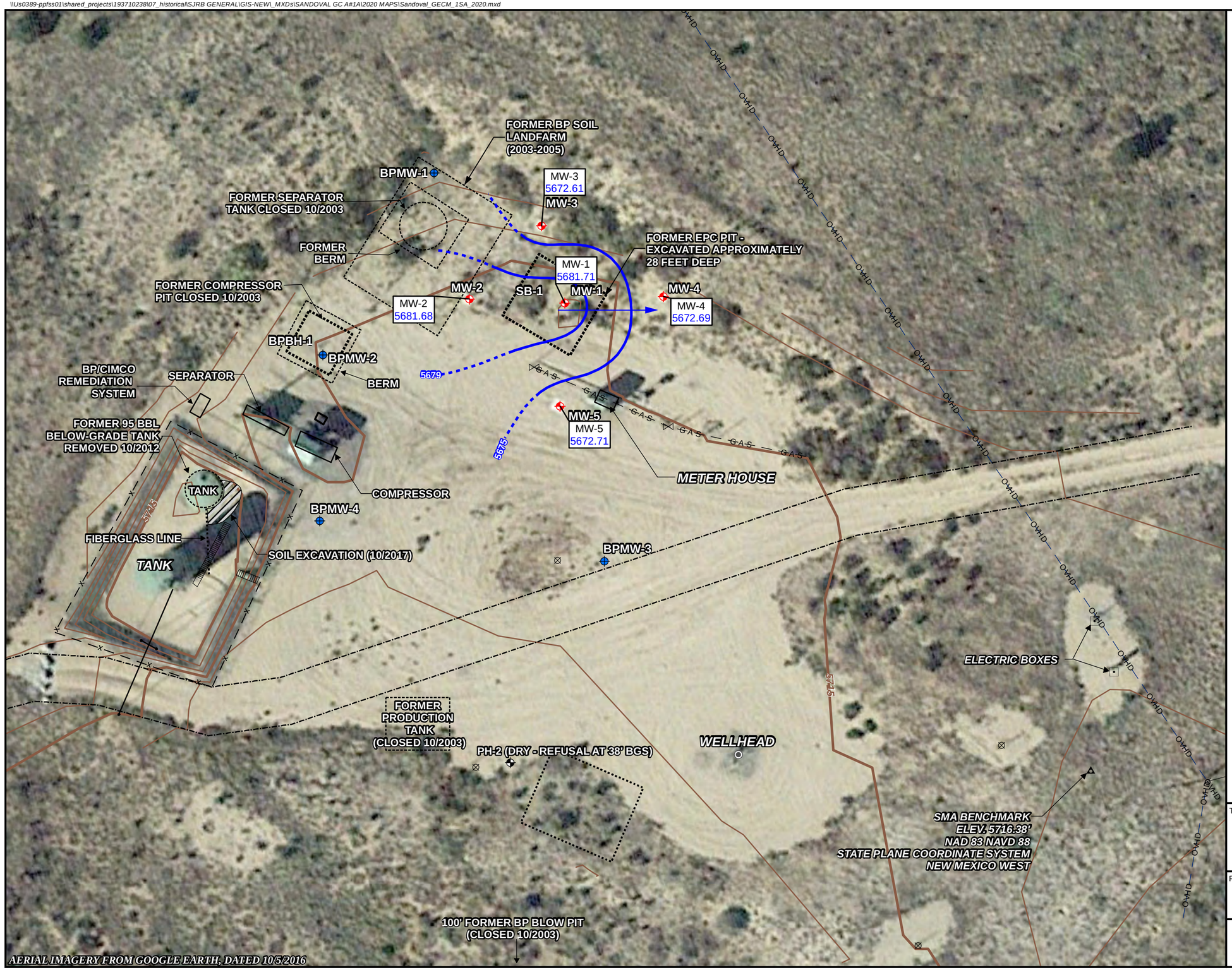
GROUNDWATER ANALYTICAL RESULTS
MAY 15, 2020

PROJECT:
SANDOVAL GC A#1A
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 3

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SANDOVAL GC A#1A\2020 MAPS\Sandoval_GECM_1SA_2020.mxd



LEGEND:

- 6508 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT
- GAS — NATURAL GAS LINE
- OVHD — OVERHEAD ELECTRIC LINE
- MONITORING WELL
- BP/CIMCO MONITORING WELL
- SMA BENCHMARK
- RIG ANCHOR

NOTES:

5673.19 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

5677 WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).

DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET

0 30 60

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

TITLE:

GROUNDWATER ELEVATION MAP
MAY 15, 2020

PROJECT:

SANDOVAL GC A#1A
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 4

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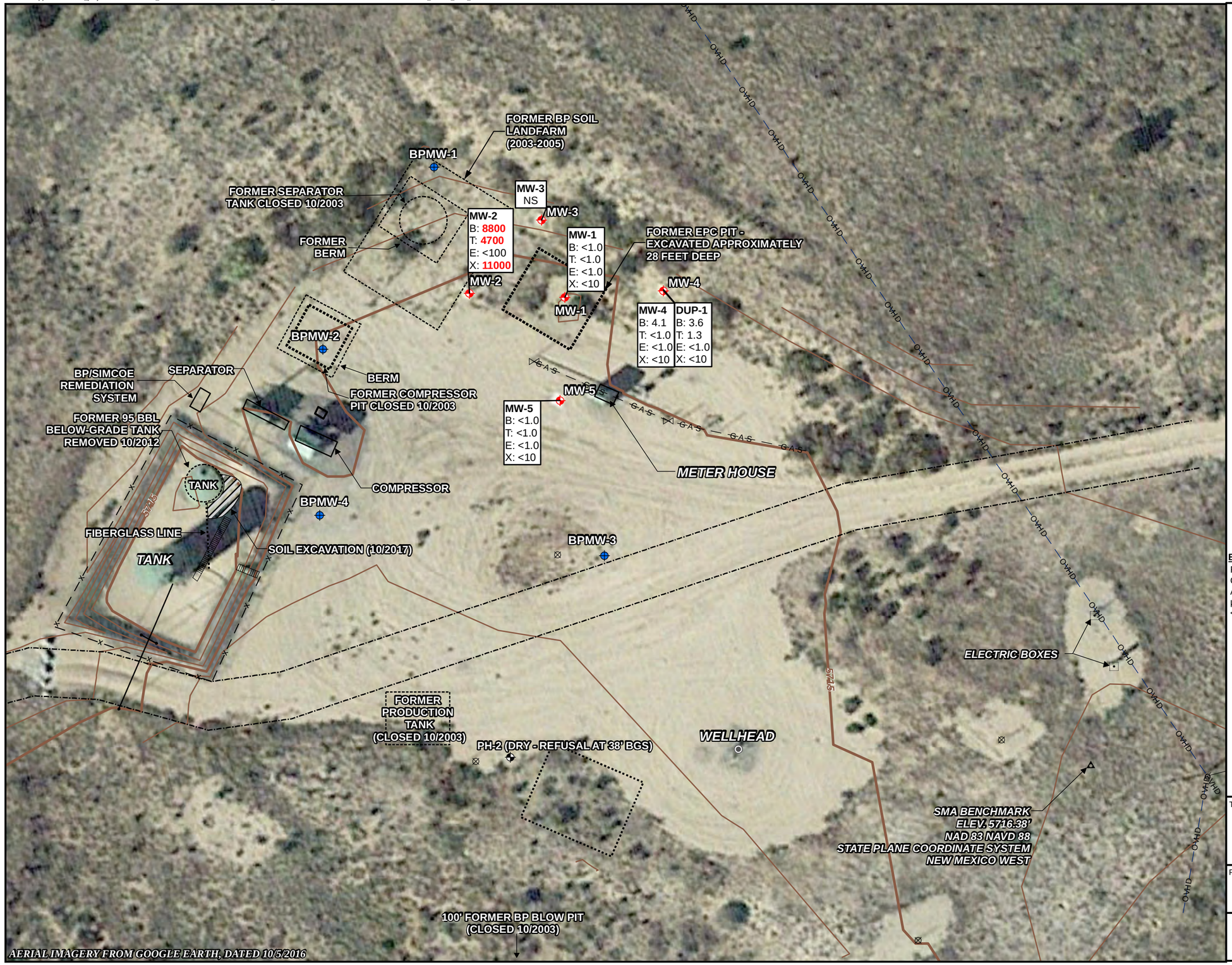


LEGEND:

- 6508 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT
- GAS — NATURAL GAS LINE
- OVHD — OVERHEAD ELECTRIC LINE
- MONITORING WELL
- BP/SIMCOE MONITORING WELL
- SMA BENCHMARK
- RIG ANCHOR
- NS — NOT SAMPLED (INSUFFICIENT AMOUNT OF WATER)

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
<10 = BELOW REPORTING LIMIT

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

N

SCALE IN FEET
0 30 60

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

TITLE:

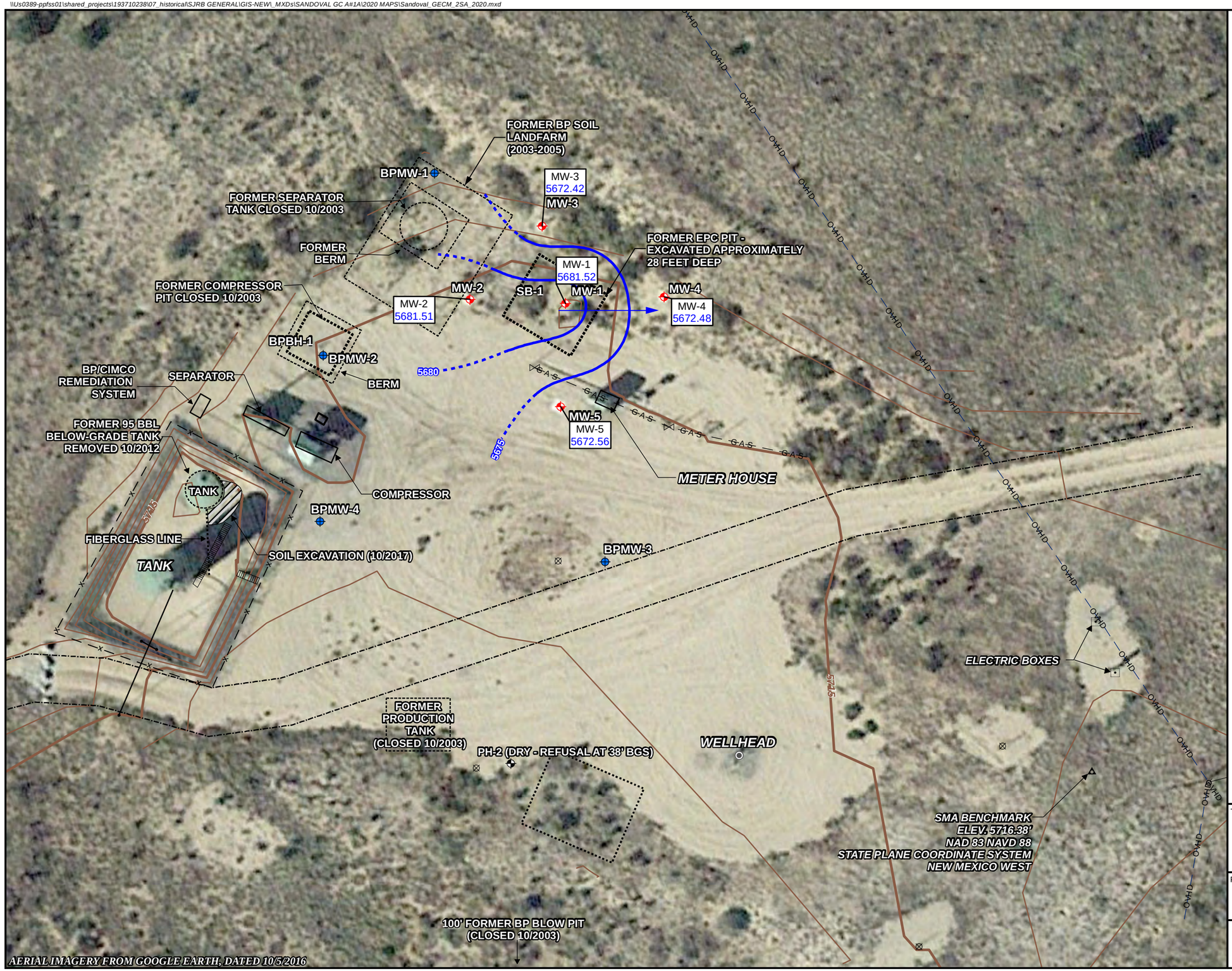
GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 13, 2020

PROJECT:
SANDOVAL GC A#1A
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 5

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SANDOVAL GC A#1A\2020 MAPS\Sandoval_GECM_2SA_2020.mxd



LEGEND:

- 6508 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT
- GAS — NATURAL GAS LINE
- OVHD — OVERHEAD ELECTRIC LINE
- MONITORING WELL
- BP/CIMCO MONITORING WELL
- SMA BENCHMARK
- RIG ANCHOR

NOTES:

5673.19 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

5675 — WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).

DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET

0 30 60

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

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 13, 2020

PROJECT:

SANDOVAL GC A#1A
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 – MAY 15, 2020 GROUNDWATER SAMPLING ANALYTICAL REPORT

NOVEMBER 13, 2020 GROUNDWATER SAMPLING ANALYTICAL REPORT

APPENDIX A

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Tuesday, May 05, 2020 9:45:00 PM

Hi Cory -

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	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	05/11/2020
Fields A#7A	3RP-170-0	05/13/2020
Fogelson 4-1	3RP-068-0	05/15/2020
Gallegos Canyon Unit #124E	3RP-407-0	05/16/2020
GCU Com A #142E	3RP-179-0	05/15/2020
James F. Bell #1E	3RP-196-0	05/16/2020
Johnston Fed #4	3RP-201-0	05/17/2020
Johnston Fed #6A	3RP-202-0	05/17/2020
K27 LDO72	3RP-204-0	05/12/2020
Knight #1	3RP-207-0	05/14/2020
Lateral L 40 Line Drip	3RP-212-0	05/14/2020
Miles Fed #1A	3RP-223-0	05/11/2020
Sandoval GC A #1A	3RP-235-0	05/15/2020
Standard Oil Com #1	3RP-238-0	05/12/2020
State Gas Com N #1	3RP-239-0	05/13/2020

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

Thank you,
Steve

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

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From: Smith, Cory, EMNRD
To: Varsa, Steve
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: RE: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Thursday, November 05, 2020 8:56:01 AM

Steve,

Thank you for the notification.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Thursday, November 5, 2020 6:02 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Wiley, Joe <joe_wiley@kindermorgan.com>
Subject: [EXT] El Paso CGP Company - Notice of upcoming groundwater sampling activities

Hi Cory -

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	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	11/12/2020
Fields A#7A	3RP-170-0	11/14/2020
Fogelson 4-1	3RP-068-0	11/14/2020
Gallegos Canyon Unit #124E	3RP-407-0	11/11/2020
GCU Com A #142E	3RP-179-0	11/11/2020
James F. Bell #1E	3RP-196-0	11/15/2020
Johnston Fed #4	3RP-201-0	11/13/2020
Johnston Fed #6A	3RP-202-0	11/13/2020
K27 LDO72	3RP-204-0	11/12/2020
Knight #1	3RP-207-0	11/11/2020
Lateral L 40 Line Drip	3RP-212-0	11/15/2020
Miles Fed #1A	3RP-223-0	11/12/2020
Sandoval GC A #1A	3RP-235-0	11/13/2020
Standard Oil Com #1	3RP-238-0	11/12/2020
State Gas Com N #1	3RP-239-0	11/14/2020

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
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Direct: (515) 251-1020
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APPENDIX B

Released to Imaging: 4/30/2024 3:31:08 PM
Received by OCD: 4/26/2021 10:11:13 AM

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-0936 or 326-334-9018
OPEN 24 Hours per Day

NO. 792696
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 5-16-20

GENERATOR: El Paso

HAULING CO. Stanley

ORDERED BY: Joe W.

DEL. TKT#.

BILL TO: El Paso

DRIVER: Sean
(Print Full Name)

CODES:

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

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		J. F Bell	5 gals					
2		GCU # 124E	5 gals					
3		GCU Com A	5 gals					
4		Fogelson 4-1 / Sandoval GCA	5 gal					
5		Lateral L-40 / Kn. gt #1	5 gal					

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

☐ Approved ☐ Denied ATTENDANT SIGNATURE Stanley Sean

SAN JUAN PRINTING 08180188

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 800455
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11.13.20
DEL. TKT#.
GENERATOR: CGP
BILL TO: CGP
HAULING CO. CGP
DRIVER: Sean
(Print Full Name)
ORDERED BY: Joe BW
CODES:

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

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Johnston Federal #7	10	70			70	
2		Johnston Federal #6A						'20 NOV 13 6:18PM
3		Sandoval GC A #1A						
4								
5								

I, Sean Clay, representative or authorized agent for Jim R Cly do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non -exempt waste.

☑ Approved ☐ Denied ATTENDANT SIGNATURE

SAN JUAN PRINTING 2020 1973-1

APPENDIX C

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-188135-1
Client Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

For:
Stantec Consulting Services Inc
11153 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
5/29/2020 5:00:22 PM

Marty Edwards, Client Service Manager
(850)471-6227
marty.edwards@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Laboratory Job ID: 400-188135-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Glossary

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

Case Narrative

Client: Stantec Consulting Services Inc Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Job ID: 400-188135-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-188135-1

Comments
No additional comments.

Receipt
The samples were received on 5/16/2020 8:18 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (400-188135-2). Elevated reporting limits (RLs) are provided.

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

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

Released to Imaging: 4/30/2024 3:31:08 PM

Detection Summary

Client: Stantec Consulting Services Inc Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: MW-1 Lab Sample ID: 400-188135-1

No Detections.

Client Sample ID: MW-2 Lab Sample ID: 400-188135-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Toluene	5200		25		ug/L	25		8260C	Total/NA
Ethylbenzene	1000		25		ug/L	25		8260C	Total/NA
Benzene - DL	7500		50		ug/L	50		8260C	Total/NA
Xylenes, Total - DL	12000		500		ug/L	50		8260C	Total/NA

Client Sample ID: MW-3 Lab Sample ID: 400-188135-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.5		1.0		ug/L	1		8260C	Total/NA
Toluene	1.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-4 Lab Sample ID: 400-188135-4

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

Client Sample ID: MW-5 Lab Sample ID: 400-188135-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	110		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TB-01 Lab Sample ID: 400-188135-6

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-188135-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	130		1.0		ug/L	1		8260C	Total/NA
Toluene	1.3		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Released to Imaging: 4/30/2024 3:31:08 PM

Sample Summary

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-188135-1	MW-1	Water	05/15/20 13:50	05/16/20 08:18	
400-188135-2	MW-2	Water	05/15/20 14:00	05/16/20 08:18	
400-188135-3	MW-3	Water	05/15/20 14:10	05/16/20 08:18	
400-188135-4	MW-4	Water	05/15/20 14:30	05/16/20 08:18	
400-188135-5	MW-5	Water	05/15/20 13:35	05/16/20 08:18	
400-188135-6	TB-01	Water	05/15/20 07:20	05/16/20 08:18	
400-188135-7	DUP-01	Water	05/15/20 01:20	05/16/20 08:18	

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: MW-1
Date Collected: 05/15/20 13:50
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-1
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			05/20/20 15:21	1
Toluene	<1.0		1.0		ug/L			05/20/20 15:21	1
Ethylbenzene	<1.0		1.0		ug/L			05/20/20 15:21	1
Xylenes, Total	<10		10		ug/L			05/20/20 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/20/20 15:21*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*05/20/20 15:21*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/20/20 15:21*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: MW-2
Date Collected: 05/15/20 14:00
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	5200		25		ug/L			05/21/20 11:25	25
Ethylbenzene	1000		25		ug/L			05/21/20 11:25	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*05/21/20 11:25*	*25*
Dibromofluoromethane	*92*		*81 - 121*		*05/21/20 11:25*	*25*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/21/20 11:25*	*25*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7500		50		ug/L			05/22/20 12:52	50
Xylenes, Total	12000		500		ug/L			05/22/20 12:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*05/22/20 12:52*	*50*
Dibromofluoromethane	*108*		*81 - 121*		*05/22/20 12:52*	*50*
Toluene-d8 (Surr)	*91*		*80 - 120*		*05/22/20 12:52*	*50*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: MW-3
Date Collected: 05/15/20 14:10
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-3
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.5**		1.0		ug/L			05/20/20 18:44	1
Toluene	**1.4**		1.0		ug/L			05/20/20 18:44	1
Ethylbenzene	<1.0		1.0		ug/L			05/20/20 18:44	1
Xylenes, Total	<10		10		ug/L			05/20/20 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/20/20 18:44*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*05/20/20 18:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/20/20 18:44*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: MW-4
Date Collected: 05/15/20 14:30
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-4
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**41**		1.0		ug/L			05/20/20 19:04	1
Toluene	<1.0		1.0		ug/L			05/20/20 19:04	1
Ethylbenzene	<1.0		1.0		ug/L			05/20/20 19:04	1
Xylenes, Total	<10		10		ug/L			05/20/20 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*05/20/20 19:04*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*05/20/20 19:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/20/20 19:04*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: MW-5
Date Collected: 05/15/20 13:35
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-5
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**110**		1.0		ug/L			05/20/20 19:24	1
Toluene	<1.0		1.0		ug/L			05/20/20 19:24	1
Ethylbenzene	<1.0		1.0		ug/L			05/20/20 19:24	1
Xylenes, Total	<10		10		ug/L			05/20/20 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*05/20/20 19:24*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*05/20/20 19:24*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/20/20 19:24*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: TB-01
Lab Sample ID: 400-188135-6
Date Collected: 05/15/20 07:20
Matrix: Water
Date Received: 05/16/20 08:18

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/20/20 16:42	1
Toluene	<1.0		1.0		ug/L			05/20/20 16:42	1
Ethylbenzene	<1.0		1.0		ug/L			05/20/20 16:42	1
Xylenes, Total	<10		10		ug/L			05/20/20 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*05/20/20 16:42*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*05/20/20 16:42*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/20/20 16:42*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: DUP-01
Date Collected: 05/15/20 01:20
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-7
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**130**		1.0		ug/L			05/20/20 19:45	1
Toluene	**1.3**		1.0		ug/L			05/20/20 19:45	1
Ethylbenzene	<1.0		1.0		ug/L			05/20/20 19:45	1
Xylenes, Total	<10		10		ug/L			05/20/20 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*05/20/20 19:45*	*1*
Dibromofluoromethane	*92*		*81 - 121*		*05/20/20 19:45*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/20/20 19:45*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Job ID: 400-188135-1

GC/MS VOA

Analysis Batch: 489823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-188135-1	MW-1	Total/NA	Water	8260C	
400-188135-3	MW-3	Total/NA	Water	8260C	
400-188135-4	MW-4	Total/NA	Water	8260C	
400-188135-5	MW-5	Total/NA	Water	8260C	
400-188135-6	TB-01	Total/NA	Water	8260C	
400-188135-7	DUP-01	Total/NA	Water	8260C	
MB 400-489823/16	Method Blank	Total/NA	Water	8260C	
LCS 400-489823/1002	Lab Control Sample	Total/NA	Water	8260C	
400-188135-1 MS	MW-1	Total/NA	Water	8260C	
400-188135-1 MSD	MW-1	Total/NA	Water	8260C	

Analysis Batch: 489941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-188135-2	MW-2	Total/NA	Water	8260C	
MB 400-489941/6	Method Blank	Total/NA	Water	8260C	
LCS 400-489941/1002	Lab Control Sample	Total/NA	Water	8260C	
400-188087-B-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-188087-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 490119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-188135-2 - DL	MW-2	Total/NA	Water	8260C	
MB 400-490119/4	Method Blank	Total/NA	Water	8260C	
LCS 400-490119/1002	Lab Control Sample	Total/NA	Water	8260C	
400-188200-B-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-188200-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Job ID: 400-188135-1

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

Lab Sample ID: MB 400-489823/16
Matrix: Water
Analysis Batch: 489823

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/20/20 15:00	1
Toluene	<1.0		1.0		ug/L			05/20/20 15:00	1
Ethylbenzene	<1.0		1.0		ug/L			05/20/20 15:00	1
Xylenes, Total	<10		10		ug/L			05/20/20 15:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*05/20/20 15:00*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*05/20/20 15:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/20/20 15:00*	*1*

Lab Sample ID: LCS 400-489823/1002
Matrix: Water
Analysis Batch: 489823

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	54.6		ug/L		109	70 - 130		
Toluene			50.0	52.9		ug/L		106	70 - 130		
Ethylbenzene			50.0	55.9		ug/L		112	70 - 130		
Xylenes, Total			100	110		ug/L		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-188135-1 MS
Matrix: Water
Analysis Batch: 489823

Client Sample ID: MW-1
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	53.6		ug/L		107	56 - 142		
Toluene	<1.0		50.0	51.2		ug/L		102	65 - 130		
Ethylbenzene	<1.0		50.0	52.1		ug/L		104	58 - 131		
Xylenes, Total	<10		100	104		ug/L		104	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-188135-1 MSD
Matrix: Water
Analysis Batch: 489823

Client Sample ID: MW-1
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	55.3		ug/L		111	56 - 142	3	30
Toluene	<1.0		50.0	52.4		ug/L		105	65 - 130	2	30
Ethylbenzene	<1.0		50.0	52.9		ug/L		106	58 - 131	2	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Job ID: 400-188135-1

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

Lab Sample ID: 400-188135-1 MSD
Matrix: Water
Analysis Batch: 489823

Client Sample ID: MW-1
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	105		ug/L		105	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 400-489941/6
Matrix: Water
Analysis Batch: 489941

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/21/20 10:44	1
Toluene	<1.0		1.0		ug/L			05/21/20 10:44	1
Ethylbenzene	<1.0		1.0		ug/L			05/21/20 10:44	1
Xylenes, Total	<10		10		ug/L			05/21/20 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/21/20 10:44*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*05/21/20 10:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/21/20 10:44*	*1*

Lab Sample ID: LCS 400-489941/1002
Matrix: Water
Analysis Batch: 489941

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	52.0		ug/L		104	70 - 130		
Toluene			50.0	51.1		ug/L		102	70 - 130		
Ethylbenzene			50.0	53.2		ug/L		106	70 - 130		
Xylenes, Total			100	105		ug/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 400-188087-B-2 MS
Matrix: Water
Analysis Batch: 489941

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	59.0		ug/L		117	56 - 142		
Toluene	<1.0		50.0	56.7		ug/L		113	65 - 130		
Ethylbenzene	<1.0		50.0	59.1		ug/L		118	58 - 131		
Xylenes, Total	<10		100	118		ug/L		118	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

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

Lab Sample ID: 400-188087-B-2 MS
Matrix: Water
Analysis Batch: 489941

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	98		78 - 118
Dibromofluoromethane	98		81 - 121
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 400-188087-B-2 MSD
Matrix: Water
Analysis Batch: 489941

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	57.2		ug/L		113	56 - 142	3	30
Toluene	<1.0		50.0	55.6		ug/L		111	65 - 130	2	30
Ethylbenzene	<1.0		50.0	57.6		ug/L		115	58 - 131	3	30
Xylenes, Total	<10		100	113		ug/L		113	59 - 130	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	100		78 - 118
Dibromofluoromethane	97		81 - 121
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: MB 400-490119/4
Matrix: Water
Analysis Batch: 490119

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/22/20 12:05	1
Toluene	<1.0		1.0		ug/L			05/22/20 12:05	1
Ethylbenzene	<1.0		1.0		ug/L			05/22/20 12:05	1
Xylenes, Total	<10		10		ug/L			05/22/20 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118		05/22/20 12:05	1
Dibromofluoromethane	112		81 - 121		05/22/20 12:05	1
Toluene-d8 (Surr)	93		80 - 120		05/22/20 12:05	1

Lab Sample ID: LCS 400-490119/1002
Matrix: Water
Analysis Batch: 490119

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	51.3		ug/L		103	70 - 130		
Toluene			50.0	50.2		ug/L		100	70 - 130		
Ethylbenzene			50.0	50.4		ug/L		101	70 - 130		
Xylenes, Total			100	99.4		ug/L		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	84		78 - 118
Dibromofluoromethane	108		81 - 121

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Job ID: 400-188135-1

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

Lab Sample ID: LCS 400-490119/1002
Matrix: Water
Analysis Batch: 490119

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 400-188200-B-1 MS
Matrix: Water
Analysis Batch: 490119

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	50.4		ug/L		101	56 - 142		
Toluene	<1.0		50.0	47.3		ug/L		95	65 - 130		
Ethylbenzene	<1.0		50.0	46.9		ug/L		94	58 - 131		
Xylenes, Total	<10		100	92.9		ug/L		93	59 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	85		78 - 118
Dibromofluoromethane	112		81 - 121
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 400-188200-B-1 MSD
Matrix: Water
Analysis Batch: 490119

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	46.4		ug/L		93	56 - 142	8	30
Toluene	<1.0		50.0	42.1		ug/L		84	65 - 130	12	30
Ethylbenzene	<1.0		50.0	39.6		ug/L		79	58 - 131	17	30
Xylenes, Total	<10		100	78.2		ug/L		78	59 - 130	17	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	84		78 - 118
Dibromofluoromethane	113		81 - 121
Toluene-d8 (Surr)	94		80 - 120

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Job ID: 400-188135-1

Client Sample ID: MW-1
Date Collected: 05/15/20 13:50
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-1
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	489823	05/20/20 15:21	RS	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-2
Date Collected: 05/15/20 14:00
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-2
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		25	5 mL	5 mL	489941	05/21/20 11:25	AMB	TAL PEN
	Instrument ID: CH_LARS									
Total/NA	Analysis	8260C	DL	50	5 mL	5 mL	490119	05/22/20 12:52	AMB	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-3
Date Collected: 05/15/20 14:10
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-3
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	489823	05/20/20 18:44	RS	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-4
Date Collected: 05/15/20 14:30
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-4
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	489823	05/20/20 19:04	RS	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-5
Date Collected: 05/15/20 13:35
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-5
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	489823	05/20/20 19:24	RS	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: TB-01
Date Collected: 05/15/20 07:20
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-6
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	489823	05/20/20 16:42	RS	TAL PEN
	Instrument ID: CH_LARS									

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Client Sample ID: DUP-01
Date Collected: 05/15/20 01:20
Date Received: 05/16/20 08:18

Lab Sample ID: 400-188135-7
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	489823	05/20/20 19:45	RS	TAL PEN
	Instrument ID: CH_LARS									

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Laboratory: Eurofins TestAmerica, 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	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-20

Method Summary

Client: Stantec Consulting Services Inc
Job ID: 400-188135-1
Project/Site: ElPaso CGP Company-Sandoval GC A#1A.00

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030B	Purge and Trap	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 TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Released to Imaging: 4/30/2024 3:31:08 PM
Received by OCD: 4/26/2021 10:11:13 AM

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SRC	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-94238-34178.1
Client Contact: Steve Varsa	Phone: 515-253-0830	E-Mail: marty.edwards@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc				Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STANDARD TAT			
State, Zip: IA, 50322-7904				
Phone: 303-291-2239(Tel)	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Sandoval GC A #1A.00	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

400-188135 COC

W-ERH-4.10-2020-SAM 13
Sandoval GC A #1

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	8260C - (MOD) BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
MW-1	5/15/2020	1350	G	Water	N	N	0	3		
MW-2	5/15/2020	1400	G	Water	N	N	0	3		
MW-3	5/15/2020	1410	G	Water	N	N	0	1		
MW-4	5/15/2020	1430	G	Water	N	N	3	0		
MW-5	5/15/2020	1335	G	Water	N	N	0	3		
TB-01	5/15/2020	0720	G	Water	N	N	2			Trip Blank
DUP-01	5/15/2020	0120	G	Water	N	N	0	3		Blind Dup

SRC SRC

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: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sean N Clay	5/15/2020 1630		Megan Hirschsen	5-16-20 818	TMHEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0°C IR

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-188135-1

Login Number: 188135 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Hinrichsen, Megan E

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-195961-1
Client Project/Site: ElPaso CGP Company - Sandoval GCA #1

For:
Stantec Consulting Services Inc
11153 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
11/30/2020 12:46:40 PM

Marty Edwards, Client Service Manager
(850)471-6227
Marty.Edwards@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Laboratory Job ID: 400-195961-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Job ID: 400-195961-1

Job ID: 400-195961-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-195961-1

Comments
No additional comments.

Receipt
The samples were received on 11/17/2020 9:36 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (400-195961-4). Elevated reporting limits (RLs) are provided.

Method 8260C: One of three internal standard responses was outside of acceptance limits for the following sample: DUP-01 (400-195961-2). The only analyte quantitated with this internal standard is the 4-Bromofluorobenzene surrogate, which was within acceptance limits. Therefore, the data has been reported.

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

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

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Detection Summary

Client: Stantec Consulting Services Inc Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: TB-01 Lab Sample ID: 400-195961-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-195961-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	3.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 Lab Sample ID: 400-195961-3

No Detections.

Client Sample ID: MW-2 Lab Sample ID: 400-195961-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	8800		100		ug/L	100		8260C	Total/NA
Toluene	4700		100		ug/L	100		8260C	Total/NA
Xylenes, Total	11000		1000		ug/L	100		8260C	Total/NA

Client Sample ID: MW-4 Lab Sample ID: 400-195961-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	4.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-5 Lab Sample ID: 400-195961-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

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Sample Summary

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-195961-1	TB-01	Water	11/13/20 00:00	11/17/20 09:36	
400-195961-2	DUP-01	Water	11/13/20 16:13	11/17/20 09:36	
400-195961-3	MW-1	Water	11/13/20 15:54	11/17/20 09:36	
400-195961-4	MW-2	Water	11/13/20 16:04	11/17/20 09:36	
400-195961-5	MW-4	Water	11/13/20 15:43	11/17/20 09:36	
400-195961-6	MW-5	Water	11/13/20 16:16	11/17/20 09:36	

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: TB-01
Lab Sample ID: 400-195961-1
Date Collected: 11/13/20 00:00
Matrix: Water
Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/25/20 00:05	1
Toluene	<1.0		1.0		ug/L			11/25/20 00:05	1
Ethylbenzene	<1.0		1.0		ug/L			11/25/20 00:05	1
Xylenes, Total	<10		10		ug/L			11/25/20 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*11/25/20 00:05*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*11/25/20 00:05*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/25/20 00:05*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: DUP-01
Lab Sample ID: 400-195961-2
Date Collected: 11/13/20 16:13
Matrix: Water
Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.6**		1.0		ug/L			11/25/20 04:09	1
Toluene	<1.0		1.0		ug/L			11/25/20 04:09	1
Ethylbenzene	<1.0		1.0		ug/L			11/25/20 04:09	1
Xylenes, Total	<10		10		ug/L			11/25/20 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*	*3	*78 - 118*		*11/25/20 04:09*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*11/25/20 04:09*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/25/20 04:09*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: MW-1
Lab Sample ID: 400-195961-3
Date Collected: 11/13/20 15:54
Matrix: Water
Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/19/20 23:53	1
Toluene	<1.0		1.0		ug/L			11/19/20 23:53	1
Ethylbenzene	<1.0		1.0		ug/L			11/19/20 23:53	1
Xylenes, Total	<10		10		ug/L			11/19/20 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*11/19/20 23:53*	*1*
Dibromofluoromethane	*119*		*81 - 121*		*11/19/20 23:53*	*1*
Toluene-d8 (Surr)	*83*		*80 - 120*		*11/19/20 23:53*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: MW-2
Lab Sample ID: 400-195961-4
Date Collected: 11/13/20 16:04
Matrix: Water
Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**8800**		100		ug/L			11/20/20 03:49	100
Toluene	**4700**		100		ug/L			11/20/20 03:49	100
Ethylbenzene	<100		100		ug/L			11/20/20 03:49	100
Xylenes, Total	**11000**		1000		ug/L			11/20/20 03:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*11/20/20 03:49*	*100*
Dibromofluoromethane	*108*		*81 - 121*		*11/20/20 03:49*	*100*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/20/20 03:49*	*100*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: MW-4
Lab Sample ID: 400-195961-5

Date Collected: 11/13/20 15:43
Matrix: Water
Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.1**		1.0		ug/L			11/25/20 04:44	1
Toluene	<1.0		1.0		ug/L			11/25/20 04:44	1
Ethylbenzene	<1.0		1.0		ug/L			11/25/20 04:44	1
Xylenes, Total	<10		10		ug/L			11/25/20 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*11/25/20 04:44*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*11/25/20 04:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/25/20 04:44*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: MW-5
Lab Sample ID: 400-195961-6

Date Collected: 11/13/20 16:16
Matrix: Water
Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/20/20 00:20	1
Toluene	<1.0		1.0		ug/L			11/20/20 00:20	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/20 00:20	1
Xylenes, Total	<10		10		ug/L			11/20/20 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*11/20/20 00:20*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*11/20/20 00:20*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*11/20/20 00:20*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

GC/MS VOA

Analysis Batch: 511414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195961-3	MW-1	Total/NA	Water	8260C	
400-195961-4	MW-2	Total/NA	Water	8260C	
400-195961-6	MW-5	Total/NA	Water	8260C	
MB 400-511414/4	Method Blank	Total/NA	Water	8260C	
LCS 400-511414/1002	Lab Control Sample	Total/NA	Water	8260C	
400-195896-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-195896-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 512026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195961-1	TB-01	Total/NA	Water	8260C	
400-195961-2	DUP-01	Total/NA	Water	8260C	
400-195961-5	MW-4	Total/NA	Water	8260C	
MB 400-512026/15	Method Blank	Total/NA	Water	8260C	
LCS 400-512026/1002	Lab Control Sample	Total/NA	Water	8260C	
400-195897-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-195897-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

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

Lab Sample ID: MB 400-511414/4
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 511414

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/19/20 19:06	1
Toluene	<1.0		1.0		ug/L			11/19/20 19:06	1
Ethylbenzene	<1.0		1.0		ug/L			11/19/20 19:06	1
Xylenes, Total	<10		10		ug/L			11/19/20 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*11/19/20 19:06*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*11/19/20 19:06*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/19/20 19:06*	*1*

Lab Sample ID: LCS 400-511414/1002
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 511414

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	56.8		ug/L		114	70 - 130		
Toluene			50.0	49.4		ug/L		99	70 - 130		
Ethylbenzene			50.0	52.3		ug/L		105	70 - 130		
Xylenes, Total			100	101		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*109*		*81 - 121*
Toluene-d8 (Surr)	*89*		*80 - 120*

Lab Sample ID: 400-195896-A-2 MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 511414

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	56.1		ug/L		112	56 - 142		
Toluene	<1.0		50.0	46.4		ug/L		93	65 - 130		
Ethylbenzene	<1.0		50.0	47.3		ug/L		95	58 - 131		
Xylenes, Total	<10		100	92.4		ug/L		92	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*110*		*81 - 121*
Toluene-d8 (Surr)	*88*		*80 - 120*

Lab Sample ID: 400-195896-A-2 MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 511414

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	57.8		ug/L		116	56 - 142	3	30
Toluene	<1.0		50.0	47.0		ug/L		94	65 - 130	1	30
Ethylbenzene	<1.0		50.0	45.8		ug/L		92	58 - 131	3	30

QC Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

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

Lab Sample ID: 400-195896-A-2 MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 511414

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	89.4		ug/L		89	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*89*		*80 - 120*

Lab Sample ID: MB 400-512026/15
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 512026

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/24/20 20:01	1
Toluene	<1.0		1.0		ug/L			11/24/20 20:01	1
Ethylbenzene	<1.0		1.0		ug/L			11/24/20 20:01	1
Xylenes, Total	<10		10		ug/L			11/24/20 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*78 - 118*		*11/24/20 20:01*	*1*
Dibromofluoromethane	*89*		*81 - 121*		*11/24/20 20:01*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/24/20 20:01*	*1*

Lab Sample ID: LCS 400-512026/1002
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 512026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	43.8		ug/L		88	70 - 130		
Toluene			50.0	47.2		ug/L		94	70 - 130		
Ethylbenzene			50.0	45.2		ug/L		90	70 - 130		
Xylenes, Total			100	90.1		ug/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 400-195897-A-1 MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 512026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	44.5		ug/L		89	56 - 142		
Toluene	<1.0		50.0	46.0		ug/L		92	65 - 130		
Ethylbenzene	<1.0		50.0	38.4		ug/L		77	58 - 131		
Xylenes, Total	<10		100	77.7		ug/L		78	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

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

Lab Sample ID: 400-195897-A-1 MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 512026

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 400-195897-A-1 MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 512026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	44.0		ug/L		88	56 - 142	1	30
Toluene	<1.0		50.0	45.4		ug/L		91	65 - 130	1	30
Ethylbenzene	<1.0		50.0	39.5		ug/L		79	58 - 131	3	30
Xylenes, Total	<10		100	78.8		ug/L		79	59 - 130	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Client Sample ID: TB-01
Lab Sample ID: 400-195961-1
Date Collected: 11/13/20 00:00
Matrix: Water
Date Received: 11/17/20 09:36

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	512026	11/25/20 00:05	BEP	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: DUP-01
Lab Sample ID: 400-195961-2
Date Collected: 11/13/20 16:13
Matrix: Water
Date Received: 11/17/20 09:36

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	512026	11/25/20 04:09	BEP	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: MW-1
Lab Sample ID: 400-195961-3
Date Collected: 11/13/20 15:54
Matrix: Water
Date Received: 11/17/20 09:36

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	511414	11/19/20 23:53	BEP	TAL PEN
	Instrument ID: Tesla									

Client Sample ID: MW-2
Lab Sample ID: 400-195961-4
Date Collected: 11/13/20 16:04
Matrix: Water
Date Received: 11/17/20 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	5 mL	5 mL	511414	11/20/20 03:49	BEP	TAL PEN
	Instrument ID: Tesla									

Client Sample ID: MW-4
Lab Sample ID: 400-195961-5
Date Collected: 11/13/20 15:43
Matrix: Water
Date Received: 11/17/20 09:36

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	512026	11/25/20 04:44	BEP	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: MW-5
Lab Sample ID: 400-195961-6
Date Collected: 11/13/20 16:16
Matrix: Water
Date Received: 11/17/20 09:36

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	511414	11/20/20 00:20	BEP	TAL PEN
	Instrument ID: Tesla									

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	12-31-20

Method Summary

Client: Stantec Consulting Services Inc
Job ID: 400-195961-1
Project/Site: ElPaso CGP Company - Sandoval GCA #1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030B	Purge and Trap	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 TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Released to Imaging: 4/30/2024 3:31:08 PM
Received by OCD: 4/26/2021 10:11:13 AM

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

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins Environment Testing Americ

400-195961 COC

Client Information	Sampler: SRL	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-97383-35227.1
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Marty.Edwards@Eurofinset.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc				Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904				
Phone: 303-291-2239(Tel)	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Sandoval GC A#1A.00 Semi-annua	Project #: 40005479			
Site: Sandoval GCA #1	SSOW#:			

Analysis Requested

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

W-ERG-STN-11-02-2020
SAH_13 Sandoval GCA #1

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		
TB-01	11/13/2020		G	Water			2		2	Trip Blank
DUP-01	11/13/2020	1613	G	Water			2		2	Duplicate, Limited Volume
MW-1	11/13/2020	1554	G	Water				2	2	
MW-2	11/13/2020	1604	G	Water				3	3	
MW-4	11/13/2020	1543	G	Water			3		3	
MW-5	11/13/2020	1616	G	Water				3	3	
				Water						
				Water						

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: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Sean R Clay	11/16/2020 0700	STN		11-17-20 0936	TAPEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.1°C IR-8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-195961-1

Login Number: 195961 **List Source: Eurofins TestAmerica, Pensacola**

List Number: 1

Creator: Conrady, Hank W

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR-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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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 25506

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 25506
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	2020 Annual Groundwater Report for Sandoval GC A#1A has been accepted for the record.	4/30/2024