2021 ANNUAL GROUNDWATER REPORT

Gallegos Canyon Unit #142E Incident Number: nAUTOfAB000219 Meter Code: 03906 T29N, R12W Sec 25, Unit G

SITE BACKGI		By Mike Buchanan at 2:25 pm, Apr 30, 2024
Operator:	Simcoe LLC	RECEIVED
Land Type:	Private Feet for	the record
Site Location:	Latitu ^{for} : 96.9#146	8년 i ^{\$} , Longitude: -108.046700 W
SITE DETAILS	2021 Annual Groundwater	

Environmental Remediation activities at the Gallegos Canyon Unit #142 (Site) are being 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, LLC's (EPCGP's) 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 private land (T29N, R12W, Sec25, Unit G). An initial site assessment was completed in April 1994, and an excavation to approximately 9 feet below ground surface (bgs) was completed in April 1994, removing approximately 20 cubic yards (cy) of soil. In October 1998 another excavation was completed, removing 882 cy of soil. Various site investigations have occurred since 1997. Temporary piezometers PZ-1 through PZ-6 were installed and removed in 1997. Monitoring wells were installed in 1997 (MW-1), 2001 (MW-2), and 2014 (MW-3 and MW-5 through MW-8). Monitoring well MW-4 was advanced as a soil boring but was not installed. The location of the Site is presented on Figure 1. A Site Plan map depicting the locations of monitoring wells, piezometers, soil borings, and current and historical site features is provided as Figure 2.

In January 1996, BP discovered a release from a discharge pit located in the vicinity of MW-2. On June 2, 1996, light nonaqueous-phase liquid (LNAPL) was discovered in monitoring well MW-2. LNAPL was subsequently discovered in monitoring wells MW-3, MW-8 and TW-1. EPCGP prepared a site conceptual model (SCM) providing a summary of the assessment and remedial activities completed by EPCGP for their release and known information regarding the BP release. Based on the available information, no further action was recommended, and the SCM and no further action request was submitted to the NMOCD on February 11, 2019. To date, no response from the NMOCD has been received regarding this request. In the interim, groundwater sampling continues to be conducted on a semi-annual basis.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the 1995 remediation plan Stantec provided access notifications via email to NMOCD on May 12, 2021, and November 3, 2021. Copies of the access notifications are provided as Appendix A. On May 21 and November 12, 2021, water levels were gauged at MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-8. No LNAPL was detected in site monitoring wells during water level gauging in 2021. Groundwater samples were collected from each well using HydraSleeveTM (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above the bottom of the screened

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interval using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

The groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins-TestAmerica, in Pensacola, Florida. One trip blank and one blind field blank were also collected during each sampling event. Each groundwater sample, field blank, and trip blank were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (EPA) Method 8260. The unused sample water was placed in a waste container and transported to Basin Disposal, Inc. (Basin) in Bloomfield, New Mexico for disposal. Waste disposal documentation is included as Appendix B.

SUMMARY TABLES

Historic analytical and water level data are summarized in Table 1 and Table 2, respectively.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2021 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

- The groundwater elevations indicate the flow direction at the Site was generally to the southeast during 2021 (see Figures 3 and 5).
- The concentration of benzene detected in samples collected from MW-1, MW-2, and MW-8 in May 2021 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. The concentrations of benzene detected in the samples collected from MW-2 and MW-8 in November 2021 exceeded the NMWQCC standard for benzene in groundwater. Monitoring wells MW-1, MW-2, and MW-8 are located hydraulically downgradient from the 1996 BP release. Detections of benzene in remaining groundwater samples collected from site wells in 2021 were below the NMWQCC standard or were not detected.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or were not detected in the site monitoring wells sampled in 2021.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in the site monitoring wells sampled in 2021.
- The concentration of total xylenes detected in the sample collected from MW-2 exceeded the NMWQCC standard (620 µg/L) in May and November 2021. Total xylenes detected in samples from the other site monitoring wells in 2021 were either below the NMWQCC standard or were not detected for total xylenes.

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- A field duplicate was collected from monitoring well MW-8 during the May and November 2021 sampling events. Significant discrepancies were not noted between either set of primary and duplicate samples.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2021 groundwater monitoring events.

SITE CLOSURE REQUEST

EPCGP respectfully requests a response from the NMOCD to the February 2019 SCM and No Further Action request.

TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTSTABLE 2 – GROUNDWATER ELEVATION RESULTS

	Gallegos Canyon Unit #142E						
		Benzene	Toluene	Ethylbenzene	Total Xylenes		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
	C Standards:	10	750	750	620		
MW-1	03/10/97	4010	7960	213	2050		
MW-1	08/06/97	1040	1310	49.4	647		
MW-1	11/05/97	543	719	33.9	342		
MW-1	02/13/98	343	354	27.6	394		
MW-1	05/06/98	429	216	13.6	176		
MW-1	05/04/99	143	20.4	7.78	63.3		
MW-1	05/25/00	230	4.4	6	450		
MW-1	06/01/01	130	0.5	3.5	6.1		
MW-1	05/14/02	34	4.9	1	3.3		
MW-1	03/07/03	270	36.8	8.3	21.1		
MW-1	09/17/03	150	77	1.9	12.8		
MW-1	03/22/04	1.4	<0.14	<0.029	<0.082		
MW-1	03/17/05	169	1.3	2.7	6.6		
MW-1	06/23/05	810	1.9	0.62	8.1		
MW-1	09/26/05	232	14.9	4	15.1		
MW-1	12/14/05	354	10.6	5.9	25.6		
MW-1	01/09/06	NS	NS	NS	NS		
MW-1	01/18/06	NS	NS	NS	NS		
MW-1	03/28/06	362	0.37J	15	15.7		
MW-1	06/14/06	210	6.5	2.3	6.1		
MW-1	06/28/07	109	12.6	1.1	5.5		
MW-1	06/23/08	2320	305	140	934		
MW-1	06/02/09	35.3	<1	0.75J	1.4J		
MW-1	12/30/09	597	10.7J	26.5	159		
MW-1	01/25/10	NS	NS	NS	NS		
MW-1	05/25/10	NS	NS	NS	NS		
MW-1	09/24/10	NS	NS	NS	NS		
MW-1	11/09/10	8610	2770	348	2810		
MW-1	02/01/11	NS	NS	NS	NS		
MW-1	05/03/11	NS	NS	NS	NS		
MW-1	09/27/11	NS	NS	NS	NS		
MW-1	11/16/11	229	36.2	5.3	39.3		
MW-1	02/16/12	NS	NS	NS	NS		
MW-1	05/07/12	NS	NS	NS	NS		
MW-1	06/07/13	810	<0.30	<0.20	4.3J		
MW-1	09/11/13	25	<0.30	<0.20	0.39J		
MW-1	12/13/13	330	<0.90	6.9	20		
MW-1	04/03/14	560	<3.8	<2.0	<6.5		
MW-1	10/25/14	57	<0.70	1.9	3J		
MW-1	05/30/15	270	<5.0	1.6	32		
MW-1	11/18/15	990	1.6	26	250		
MW-1	04/18/16	22	<5.0	<1.0	<5.0		
MW-1	10/14/16	520	<10	<2.0	<10		
MW-1	06/11/17	190	<10	<2.0	<10		
MW-1	11/13/17	45	<1.0	<1.0	<10		
MW-1	05/17/18	8.6	<1.0	<1.0	<10		
DP-01(MW-1)*	05/17/18	8.4	<1.0	<1.0	<10		
MW-1	10/28/18	1.5	<1.0	<1.0	<10		

	Gallegos Canyon Unit #142E						
		Benzene	Toluene	Ethylbenzene	Total Xylenes		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
	C Standards:	10	750	750	620		
MW-1	05/22/19	85	<1.0	1	<10		
MW-1	11/11/19	<1.0	<1.0	<1.0	<10		
DUP-1(MW-1)*	11/11/19	<1.0	<1.0	<1.0	<10		
MW-1	05/15/20	<1.0 14	<1.0	<1.0	<10		
MW-1	11/11/20	<1.0	<1.0	<1.0	<10		
MW-1	05/21/21	<1.0 54	<1.0	<1.0	<10		
MW-1	11/12/21	2.5	<1.0	<1.0	<10		
	11/12/21	2.5	<1.0	<1.0	<10		
MW-2	12/13/01	22000	25000	500	4300		
MW-2	05/14/02	NS	NS	NS	NS		
MW-2	09/17/03	6890	4760	219	1770		
MW-2	03/22/04	13000	8880	321	2850		
MW-2	03/17/05	2800	1640	125	978		
MW-2	09/14/05	1980	915	63.8	391		
MW-2	01/09/06	NS	NS	NS	NS		
MW-2	01/18/06	NS	NS	NS	NS		
MW-2	06/14/06	2140	811	83.5	610		
MW-2	06/28/07	2100	492	140	1050		
MW-2	06/23/08	221	1.5J	3.9	5.8		
MW-2	06/02/09	NS	NS	NS	NS		
MW-2	12/30/09	6660	6750	764	6210		
MW-2	01/25/10	NS	NS	NS	NS		
MW-2	05/25/10	NS	NS	NS	NS		
MW-2	09/24/10	NS	NS	NS	NS		
MW-2	11/09/10	3900	2450	342	2660		
MW-2	02/01/11	NS	NS	NS	NS		
MW-2	05/03/11	NS	NS	NS	NS		
MW-2	09/27/11	NS	NS	NS	NS		
MW-2	11/16/11	2040	1020	231	1520		
MW-2	02/16/12	NS	NS	NS	NS		
MW-2	05/07/12	NS	NS	NS	NS		
MW-2	06/07/13	6000	1100	500	3800		
MW-2	09/11/13	2200	470	240	1900		
MW-2	12/13/13	5500	830	510	3700		
MW-2	04/03/14	NS	NS	NS	NS		
MW-2	10/25/14	NS	NS	NS	NS		
MW-2	05/30/15	3300	140	570	3400		
MW-2	11/18/15	4000	120	520	1500		
MW-2	04/18/16	NS	NS	NS	NS		
MW-2	10/14/16	NS	NS	NS	NS		
MW-2	06/11/17	NS	NS	NS	NS		
MW-2	11/13/17	2100	77	220	1800		
MW-2	05/17/18	NS	NS	NS	NS		
MW-2	10/28/18	NS	NS	NS	NS		
MW-2	05/22/19	1500	<25	840	6200		
MW-2	11/11/19	1000	<10	390	2800		
MW-2	05/15/20	1100	<25	450	3000		
MW-2	11/11/20	1100	<10	550	3800		

[Gallegos Canyon Unit #142E						
		Benzene	Toluene	Ethylbenzene	Total Xylenes		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
	Standards:	10	750	750	620		
MW-2	05/21/21	960	<10	600	6100		
MW-2	11/12/21	660	<20	520	3200		
MW-3	10/25/14	<0.38	<0.70	<0.50	<1.6		
MW-3	05/30/15	<1.0	<5.0	<1.0	<5.0		
MW-3	11/18/15	<1.0	<1.0	<1.0	<3.0		
MW-3	04/18/16	NS	NS	NS	NS		
MW-3	10/14/16	NS	NS	NS	NS		
MW-3	06/11/17	NS	NS	NS	NS		
MW-3	11/13/17	69	7.8	6.8	160		
MW-3	05/17/18	11	6.4	18	200		
MW-3	10/28/18	<1.0	<1.0	<1.0	<10		
MW-3	05/22/19	2.3	<1.0	1.3	18		
MW-3	11/11/19	<1.0	<1.0	<1.0	<10		
MW-3	05/15/20	5.0	<1.0	<1.0	<10		
DUP-1(MW-3)*	05/15/20	5.2	<1.0	<1.0	<10		
MW-3	11/11/20	<1.0	<1.0	<1.0	<10		
MW-3	05/21/21	2.1	<1.0	<1.0	<10		
MW-3	11/12/21	<1.0	<1.0	<1.0	<10		
MW-5	10/25/14	1.8	<0.70	0.89J	11		
MW-5	05/30/15	<1.0	<5.0	<1.0	<5.0		
MW-5	11/18/15	<1.0	<1.0	<1.0	<3.0		
MW-5	04/18/16	22	<5.0	<1.0	5.9		
MW-5	10/14/16	<1.0	<5.0	<1.0	<5.0		
MW-5	06/11/17	13	<5.0	1.9	15		
MW-5	11/13/17	<1.0	<1.0	<1.0	<10		
MW-5	05/17/18	<1.0	<1.0	<1.0	<10		
MW-5	10/28/18	<1.0	<1.0	<1.0	<10		
DUP-1(MW-5)*	10/28/18	<1.0	<1.0	<1.0	<10		
MW-5	05/22/19	<1.0	<1.0	<1.0	<10		
MW-5	11/11/19	<1.0	<1.0	<1.0	<10		
MW-5	05/15/20	<1.0	<1.0	<1.0	<10		
MW-5	11/11/20	<1.0	<1.0	<1.0	<10		
MW-5	05/21/21	<1.0	<1.0	<1.0	<10		
MW-5	11/12/21	<1.0	<1.0	<1.0	<10		
MW-6	10/25/14	1.1	<0.70	<0.50	<1.6		
MW-6	05/30/15	190	<25	<5.0	110		
MW-6	11/18/15	<1.0	<1.0	<1.0	<3.0		
MW-6	04/18/16	47	<5.0	20	6.4		
MW-6	10/14/16	<1.0	<5.0	<1.0	<5.0		
MW-6	06/11/17	2.2	<5.0	<1.0	<5.0		
MW-6	11/13/17	<1.0	<1.0	<1.0	<10		
MW-6	05/17/18	<1.0	<1.0	<1.0	<10		
MW-6	10/28/18	<1.0	<1.0	<1.0	<10		
MW-6	05/22/19	<1.0	<1.0	<1.0	<10		
DUP-1(MW-6)*	05/22/19	<1.0	<1.0	<1.0	<10		
MW-6	11/11/19	<1.0	<1.0	<1.0	<10		

	Ga	allegos Ca	nyon Unit	#142E	
		Benzene	Toluene	Ethylbenzene	Total Xylenes
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NMWQC	C Standards:	10	750	750	620
MW-6	05/15/20	<1.0	<1.0	<1.0	<10
MW-6	11/11/20	<1.0	<1.0	<1.0	<10
MW-6	05/21/21	<1.0	<1.0	<1.0	<10
MW-6	11/12/21	<1.0	<1.0	<1.0	<10
MW-7	10/25/14	4.7	0.7J	1.7	5.7J
MW-7	05/30/15	6.5	<5.0	<1.0	1.8J
MW-7	11/18/15	4.3	<1.0	<1.0	<3.0
MW-7	04/18/16	480	350	31	200
MW-7	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-7	06/11/17	120	11	1.9	18
MW-7	11/13/17	7.4	<1.0	<1.0	<10
MW-7	05/17/18	15	<1.0	<1.0	<10
MW-7	10/28/18	<1.0	<1.0	<1.0	<10
MW-7	05/22/19	<1.0	<1.0	<1.0	<10
MW-7	11/11/19	<1.0	<1.0	<1.0	<10
MW-7	05/15/20	38	<1.0	1.9	<10
MW-7	11/11/20	<1.0	<1.0	<1.0	<10
MW-7	05/21/21	<1.0	<1.0	<1.0	<10
MW-7	11/12/21	<1.0	<1.0	<1.0	<10
TMW-1	01/06/06	NS	NS	NS	NS
TMW-1	01/09/06	NS	NS	NS	NS
TMW-1	01/18/06	NS	NS	NS	NS
TMW-1	06/23/08	NS	NS	NS	NS
TMW-1	12/30/09	3660	1550	520	4110
TMW-1	01/25/10	NS	NS	NS	NS
TMW-1	05/25/10	NS	NS	NS	NS
TMW-1	09/24/10	NS	NS	NS	NS
TMW-1	11/09/10	8880	14400	956	9040
TMW-1	02/01/11	NS	NS	NS	NS
TMW-1	05/03/11	NS	NS	NS	NS
TMW-1	09/27/11	NS	NS	NS	NS
TMW-1	11/16/11	3890	6250	420	3610
TMW-1	02/16/12	NS	NS	NS	NS
TMW-1	05/07/12	NS	NS	NS	NS
TMW-1	06/07/13	5100	1100	190	2600
TMW-1	09/11/13	6600	960	190	2600
TMW-1	12/13/13	6500	2200	410	4000
TMW-1	04/03/14	NS	NS	NS	NS
TMV	/-1 abandoned	on Septemb	ber 8, 2014.	and replaced with	MW-8

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Gallegos Canyon Unit #142E							
		Benzene	Toluene	Ethylbenzene	Total Xylenes		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
NMWQCC	Standards:	10	750	750	620		
MW-8	10/25/14	0.77J	<0.70	<0.50	<1.6		
MW-8	05/30/15	36	<5.0	3.1	19		
MW-8	11/18/15	6.6	<1.0	<1.0	<3.0		
MW-8	04/18/16	3	<5.0	<1.0	<5.0		
MW-8	10/14/16	4.8	<5.0	<1.0	<5.0		
MW-8	06/11/17	NS	NS	NS	NS		
MW-8	11/13/17	1900	65	190	1600		
MW-8	05/17/18	96	3.4	5.2	74		
MW-8	10/28/18	<1.0	<1.0	<1.0	<10		
MW-8	05/22/19	1200	<10	120	700		
MW-8	11/11/19	1.6	<1.0	<1.0	<10		
MW-8	05/15/20	660	<5.0	31	<50		
MW-8	11/11/20	<1.0	<1.0	<1.0	<10		
DUP-1(MW-8)*	11/11/20	2.4	<1.0	<1.0	<10		
MW-8	05/21/21	790	<5.0	6.3	<50		
DUP-1(MW-8)*	05/21/21	590	<5.0	<5.0	<50		
MW-8	11/12/21	150	<1.0	7.2	24		
DUP-1(MW-8)*	11/12/21	130	<1.0	5.5	18		

Notes:

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

 $\mu g/L = micrograms per liter$

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).

*Field Duplicate results presented immediately below primary sample result

Gallegos Canyon Unit #142E						
			Depth to	Depth to	LNAPL	GW Elevation
Location	Date	ТОС	LNAPL (ft.)	Water (ft.)	Thickness (ft.)	(ft.)
MW-1	03/10/97	5481.83	NR	16.78		5465.05
MW-1	08/06/97	5481.83	NR	14.46		5467.37
MW-1	11/05/97	5481.83	NR	15.02		5466.81
MW-1	02/13/98	5481.83	NR	18.18		5463.65
MW-1	05/06/98	5481.83	NR	18.69		5463.14
MW-1	05/04/99	5481.83	NR	17.61		5464.22
MW-1	05/25/00	5481.83	NR	16.44		5465.39
MW-1	06/01/01	5481.83	NR	17.08		5464.75
MW-1	05/14/02	5481.83	NR	14.70		5467.13
MW-1	03/07/03	5481.83	ND	15.32		5466.52
MW-1	09/17/03	5481.83	ND	DRY		5460.12
MW-1	03/22/04	5481.83	ND	17.38		5464.45
MW-1	03/17/05	5481.83	ND	18.15		5463.69
MW-1	06/23/05	5481.83	ND	14.72		5467.11
MW-1	09/26/05	5481.83	ND	11.95		5469.88
MW-1	12/14/05	5481.83	ND	14.67		5467.16
MW-1	01/09/06	5481.83	ND	15.67		5466.16
MW-1	01/18/06	5481.83	ND	15.97		5465.86
MW-1	03/28/06	5481.83	ND	18.16		5463.67
MW-1	06/14/06	5481.83	ND	13.08		5468.75
MW-1	06/28/07	5481.83	ND	16.18		5465.65
MW-1	06/23/08	5481.83	ND	15.45		5466.38
MW-1	06/02/09	5481.83	ND	17.80		5464.03
MW-1	12/30/09	5481.83	ND	16.82		5465.01
MW-1	01/25/10	5481.83	ND	17.61		5464.22
MW-1	05/25/10	5481.83	ND	18.45		5463.38
MW-1	09/24/10	5481.83	ND	14.59		5467.24
MW-1	11/09/10	5481.83	ND	14.86		5466.97
MW-1	02/01/11	5481.83	ND	17.46		5464.37
MW-1	05/03/11	5481.83	ND	19.22		5462.61
MW-1	09/27/11	5481.83	ND	11.12		5470.71
MW-1	11/16/11	5481.83	ND	12.75		5469.08
MW-1	02/16/12	5481.83	ND	15.47		5466.36
MW-1	05/07/12	5481.83	ND	16.21		5465.62
MW-1	06/07/13	5481.83	ND	14.06		5467.77
MW-1	09/11/13	5481.83	ND	12.61		5469.22
MW-1	12/13/13	5481.83	ND	14.22		5467.61
MW-1	04/03/14	5481.83	ND	17.66		5464.17
MW-1	10/25/14	5481.83	ND	12.69		5469.14
MW-1	05/30/15	5481.83	ND	16.29		5465.54
MW-1	11/18/15	5481.83	ND	14.52		5467.31
MW-1	04/18/16	5481.83	ND	19.06		5462.77

	Gallegos Canyon Unit #142E							
			Depth to	Depth to	LNAPL	GW Elevation		
Location	Date	тос	LNAPL (ft.)	Water (ft.)	Thickness (ft.)	(ft.)		
MW-1	10/14/16	5481.83	ND	15.54		5466.29		
MW-1	06/11/17	5481.83	ND	17.44		5464.39		
MW-1	11/13/17	5481.83	ND	14.65		5467.18		
MW-1	05/17/18	5481.83	ND	16.74		5465.09		
MW-1	10/28/18	5481.83	ND	12.31		5469.52		
MW-1	05/22/19	5481.83	ND	15.85		5465.98		
MW-1	11/11/19	5481.83	ND	11.51		5470.32		
MW-1	05/15/20	5481.83	ND	15.37		5466.46		
MW-1	11/11/20	5481.83	ND	11.91		5469.92		
MW-1	05/21/21	5481.83	ND	15.78		5466.05		
MW-1	11/12/21	5481.83	ND	12.70		5469.13		
MW-2	12/13/01	5481.56	NR	14.52		5467.04		
MW-2	05/14/02	5481.56	NR	14.37		5467.19		
MW-2	09/17/03	5481.56	ND	DRY		5463.56		
MW-2	03/22/04	5481.56	ND	17.06		5464.50		
MW-2	03/17/05	5481.56	ND	17.83		5463.73		
MW-2	09/14/05	5481.56	ND	11.45		5470.11		
MW-2	01/09/06	5481.56	ND	15.35		5466.21		
MW-2	01/18/06	5481.56	ND	15.65		5465.91		
MW-2	06/14/06	5481.56	ND	12.64		5468.92		
MW-2	06/28/07	5481.56	ND	16.86		5464.70		
MW-2	06/23/08	5481.56	ND	15.15		5466.41		
MW-2	06/02/09	5481.56	17.42	17.84	0.42	5464.04		
MW-2	12/30/09	5481.56	16.45	16.48	0.03	5465.10		
MW-2	01/25/10	5481.56	17.27	17.45	0.18	5464.25		
MW-2	05/25/10	5481.56	18.05	18.55	0.50	5463.39		
MW-2	09/24/10	5481.56	ND	14.25		5467.31		
MW-2	11/09/10	5481.56	14.49	14.50	0.01	5467.07		
MW-2	02/01/11	5481.56	ND	17.15		5464.41		
MW-2	05/03/11	5481.56	ND	18.91		5462.65		
MW-2	09/27/11	5481.56	ND	12.65		5468.91		
MW-2	11/16/11	5481.56	ND	12.37		5469.19		
MW-2	02/16/12	5481.56	ND	15.13		5466.43		
MW-2	05/07/12	5481.56	ND	16.91		5464.65		
MW-2	06/07/13	5481.56	ND	13.63		5467.93		
MW-2	09/11/13	5481.56	ND	12.18		5469.38		
MW-2	12/13/13	5481.56	ND	13.92		5467.64		
MW-2	04/03/14	5481.56	17.31	17.42	0.11	5464.22		
MW-2	10/25/14	5481.56	ND	12.14		5469.42		
MW-2	05/30/15	5481.56	ND	15.92		5465.64		
MW-2	11/18/15	5481.56	ND	14.26		5467.30		

Gallegos Canyon Unit #142E							
			Depth to	Depth to	LNAPL	GW Elevation	
Location	Date	тос	LNAPL (ft.)	Water (ft.)	Thickness (ft.)	(ft.)	
MW-2	04/18/16	5481.56	18.69	18.99	0.30	5462.80	
MW-2	10/14/16	5481.56	ND	15.26		5466.30	
MW-2	06/11/17	5481.56	17.09	17.23	0.14	5464.44	
MW-2	11/13/17	5481.56	ND	14.28		5467.28	
MW-2	05/17/18	5481.56	16.39	16.43	0.04	5465.16	
MW-2	10/28/18	5481.56	ND	11.67		5469.89	
MW-2	05/22/19	5481.56	ND	15.56		5466.00	
MW-2	11/11/19	5481.56	ND	10.92		5470.64	
MW-2	05/15/20	5481.56	ND	15.05		5466.51	
MW-2	11/11/20	5481.56	ND	11.35		5470.21	
MW-2	05/21/21	5481.56	ND	15.43		5466.13	
MW-2	11/12/21	5481.56	ND	12.19		5469.37	
MW-3	10/25/14	5481.87	ND	12.53		5469.34	
MW-3	05/30/15	5481.87	ND	16.32		5465.55	
MW-3	11/18/15	5481.87	ND	14.65		5467.22	
MW-3	04/18/16	5481.87	ND	19.18		5462.69	
MW-3	10/14/16	5481.87	ND	15.64		5466.23	
MW-3	06/11/17	5481.87	17.40	17.57	0.17	5464.43	
MW-3	11/13/17	5481.87	ND	14.64		5467.23	
MW-3	05/17/18	5481.87	ND	16.60		5465.27	
MW-3	10/28/18	5481.87	ND	11.93		5469.94	
MW-3	05/22/19	5481.87	ND	15.85		5466.02	
MW-3	11/11/19	5481.87	ND	11.25		5470.62	
MW-3	05/15/20	5481.87	ND	15.31		5466.56	
MW-3	11/11/20	5481.87	ND	11.69		5470.18	
MW-3	05/21/21	5481.87	ND	15.75		5466.12	
MW-3	11/12/21	5481.87	ND	12.52		5469.35	
MW-5	10/25/14	5482.04	ND	12.73		5469.31	
MW-5	05/30/15	5482.04	ND	16.50		5465.54	
MW-5	11/18/15	5482.04	ND	14.80		5467.24	
MW-5	04/18/16	5482.04	ND	19.20		5462.84	
MW-5	10/14/16	5482.04	ND	15.78		5466.26	
MW-5	06/11/17	5482.04	ND	17.65		5464.39	
MW-5	11/13/17	5482.04	ND	14.81		5467.23	
MW-5	05/17/18	5482.04	ND	16.95		5465.09	
MW-5	10/28/18	5482.04	ND	12.31		5469.73	
MW-5	05/22/19	5482.04	ND	16.10		5465.94	
MW-5	11/11/19	5482.04	ND	11.58		5470.46	
MW-5	05/15/20	5482.04	ND	15.62		5466.42	
MW-5	11/11/20	5482.04	ND	11.97		5470.07	

Gallegos Canyon Unit #142E						
			Depth to	Depth to	LNAPL	GW Elevation
Location	Date	тос	LNAPL (ft.)	Water (ft.)	Thickness (ft.)	(ft.)
MW-5	05/21/21	5482.04	ND	16.01		5466.03
MW-5	11/12/21	5482.04	ND	12.81		5469.23
MW-6	10/25/14	5481.45	ND	12.31		5469.14
MW-6	05/30/15	5481.45	ND	16.01		5465.44
MW-6	11/18/15	5481.45	ND	14.36		5467.09
MW-6	04/18/16	5481.45	ND	18.73		5462.72
MW-6	10/14/16	5481.45	ND	15.35		5466.10
MW-6	06/11/17	5481.45	ND	17.14		5464.31
MW-6	11/13/17	5481.45	ND	14.39		5467.06
MW-6	05/17/18	5481.45	ND	16.37		5465.08
MW-6	10/28/18	5481.45	ND	11.85		5469.60
MW-6	05/22/19	5481.45	ND	15.60		5465.85
MW-6	11/11/19	5481.45	ND	11.21		5470.24
MW-6	05/15/20	5481.45	ND	15.10		5466.35
MW-6	11/11/20	5481.45	ND	11.59		5469.86
MW-6	05/21/21	5481.45	ND	15.55		5465.90
MW-6	11/12/21	5481.45	ND	12.39		5469.06
MW-7	10/25/14	5481.80	ND	12.59		5469.21
MW-7	05/30/15	5481.80	ND	16.32		5465.48
MW-7	11/18/15	5481.80	ND	14.67		5467.13
MW-7	04/18/16	5481.80	ND	19.09		5462.71
MW-7	10/14/16	5481.80	ND	15.66		5466.14
MW-7	06/11/17	5481.80	ND	17.44		5464.36
MW-7	11/13/17	5481.80	ND	14.67		5467.13
MW-7	05/17/18	5481.80	ND	16.62		5465.18
MW-7	10/28/18	5481.80	ND	12.01		5469.79
MW-7	05/22/19	5481.80	ND	15.86		5465.94
MW-7	11/11/19	5481.80	ND	11.37		5470.43
MW-7	05/15/20	5481.80	ND	15.35		5466.45
MW-7	11/11/20	5481.80	ND	11.78		5470.02
MW-7	05/21/21	5481.80	ND	15.79		5466.01
MW-7	11/12/21	5481.80	ND	12.63		5469.17
TMW-1	01/06/06	5481.43	ND	15.29		5466.14
TMW-1	01/09/06	5481.43	ND	15.27		5466.16
TMW-1	01/18/06	5481.43	ND	15.57		5465.87
TMW-1	06/23/08	5481.43	ND	15.04		5466.39
TMW-1	12/30/09	5481.43	ND	NA		NA
TMW-1	01/25/10	5481.43	ND	17.23		5464.20
TMW-1	05/25/10	5481.43	17.80	18.70	0.90	5463.41
TMW-1	09/24/10	5481.43	14.10	14.45	0.35	5467.25

TABLE 2 - GROUNDWATER ELEVATION RESULTS

		G	allegos Car	yon Unit #	142E	
			Depth to	Depth to	LNAPL	GW Elevation
Location	Date	тос	LNAPL (ft.)	Water (ft.)	Thickness (ft.)	(ft.)
TMW-1	11/09/10	5481.43	14.37	14.62	0.25	5467.00
TMW-1	02/01/11	5481.43	17.00	17.45	0.45	5464.32
TMW-1	05/03/11	5481.43	18.55	19.76	1.21	5462.58
TMW-1	09/27/11	5481.43	12.03	12.43	0.40	5469.30
TMW-1	11/16/11	5481.43	12.31	12.44	0.13	5469.09
TMW-1	02/16/12	5481.43	12.03	14.25	2.22	5468.85
TMW-1	05/07/12	5481.43	14.18	14.20	0.02	5467.25
TMW-1	06/07/13	5481.43	ND	13.65		5467.78
TMW-1	09/11/13	5481.43	ND	12.14		5469.29
TMW-1	12/13/13	5481.43	ND	13.90		5467.53
TMW-1	04/03/14	5481.43	17.25	17.36	0.11	5464.16
	TMW-1 a	abandoneo	d on Septembe	er 8, 2014, and	d replaced with MV	N-8
MW-8	10/25/14	5481.83	ND	12.50		5469.33
MW-8	05/30/15	5481.83	ND	16.28		5465.55
MW-8	11/18/15	5481.83	ND	14.60		5467.23
MW-8	04/18/16	5481.83	ND	19.11		5462.72
MW-8	10/14/16	5481.83	ND	15.61		5466.22
MW-8	06/11/17	5481.83	17.20	18.09	0.89	5464.41
MW-8	11/13/17	5481.83	ND	14.63		5467.20
MW-8	05/17/18	5481.83	ND	16.64		5465.19
MW-8	10/28/18	5481.83	ND	11.97		5469.86
MW-8	05/22/19	5481.83	ND	15.85		5465.98
MW-8	11/11/19	5481.83	ND	11.26		5470.57
MW-8	05/15/20	5481.83	ND	15.33		5466.50
MW-8	11/11/20	5481.83	ND	11.69		5470.14
MW-8	05/21/21	5481.83	ND	15.75		5466.08
MW-8	11/12/21	5481.83	ND	12.55		5469.28

Notes:

"ft" = feet

"TOC" = Top of casing

LNAPL = light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = Presence or Absence of LNAPL not recorded

Groundwater elevation = Top of Casing elevation (TOC, ft) - Depth to Water [ft] + (LPH thickness [ft] \times 0.75). A specific gravity of 0.75 is within the range of gas condensate (<u>https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate</u>)

FIGURES

- FIGURE 1: SITE LOCATION MAP
- FIGURE 2: SITE PLAN
- FIGURE 3: GROUNDWATER ANALYTICAL RESULTS MAY 21, 2021
- FIGURE 4: GROUNDWATER ELEVATION MAY 21, 2021
- FIGURE 5: GROUNDWATER ANALYTICAL RESULTS NOVEMBER 12, 2021
- FIGURE 6: GROUNDWATER ELEVATION MAP NOVEMBER 12, 2021



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5795	APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
	ACCESS ROAD
	UNKNOWN LINE (POTENTIALLY ABANDONED)
	LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011 FENCE
	PRODUCED WATER LINE
—uee— —uec	UNDERGROUND CABLE
—G— —	UNDERGROUND GAS LINE
	APPROXIMATE FORMER DITCH
	APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
•	MONITORING WELL
\otimes	ABANDONED MONITORING WELL
+	SIMCO MONITORING WELL
\$	NEW BP WELL (10/29/2018)
۲	WELLHEAD
Δ	SMABENCHMARK
Ø	RIG ANCHOR
MW-4 WAS A SOI BP FORMER PIT FROM 06/24/2011 EXPLANATION C RESULTS IN BOL	
<1 = BELOW REF	
ANALYTE B = Benzene T = Toluene E = Ethylbenze X = Total Xylene	
	SCALE IN FEET
, h	
	0 30 60
٩	REVISION DATE DESIGN BY DRAWN BY REVIEWED BY 7/1/4/2221 SAH SAH SRV
TITLE:	
GROUI	NDWATER ANALYTICAL RESULTS MAY 21, 2021
PROJECT:	
	GOS CANYON UNIT COM A #142E N JUAN COUNTY, NEW MEXICO
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	APPRO CONTO					
	- ACCES	S ROAL	0			
	UNKNO		IE (PO	TENTIAI	LLY	
		ION OF /ED 7/19		ER 95 B	ARREL	UST
— P₩- —	PRODU	ICED W	ATER L	.INE		
—uæ— —		GROUN	ID CAB	LE		
—G— —	UNDER	GROUN	D GAS	LINE		
	APPRO	XIMATE	FORM	ER DIT	СН	
	APPRO SOIL E> 15.5 FE	CAVAT		-		EPNG
+	MONITO	DRING \	VELL			
\otimes	ABAND		ΙΟΝΙΤΟ	DRING \	NELL	
+	SIMCO	MONITO	DRING	WELL		
+	NEW BI	P WELL	(10/29/	2018)		
\bigcirc	WELLH	EAD				
Δ	SMA BE	NCHM/	ARK			
Ø	RIG AN	CHOR				
NOTES:						
545.90	GROUNDWAT			_)		
	WATER LEVE (DASHED WH				/E MEAN	
	SEA LEVEL) DIRECTION ()F APPAR	ENT GRC	DUNDWAT	ER FLOW	1
MW-4 WAS A BP FORMER	ATIONS ARE A SOIL BORING PIT AND EXCA 2011 FIGURE I	ONLY (NO	OWELL C	ER INFORI	MATIÓN C	DBTAINED
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TITLE:				1		

GROUNDWATER ELEVATION MAP MAY 21, 2021

PROJECT:

GALLEGOS CANYON UNIT COM A #142E SAN JUAN COUNTY, NEW MEXICO

Stantec Figure No.: 4





<u>—5795</u>	APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
	ACCESS ROAD
	UNKNOWN LINE (POTENTIALLY ABANDONED)
	LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011 FENCE
	PRODUCED WATER LINE
—uc- —uc	UNDERGROUND CABLE
—G— —	UNDERGROUND GAS LINE
	APPROXIMATE FORMER DITCH
	APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
+	MONITORING WELL
0	ABANDONED MONITORING WELL
+	SIMCO MONITORING WELL
+	NEW BP WELL (10/29/2018)
۲	WELLHEAD
Δ	SMABENCHMARK
Ø	RIG ANCHOR
MW-4 WAS A SOI BP FORMER PIT FROM 06/24/2011 EXPLANATION C RESULTS IN BOL	AMS PER LITER
ANALYTE	NMWQCC STANDARDS
B = Benzene T = Toluene E = Ethylbenze X = Total Xylene	10 μg/L 750 μg/L ne 750 μg/L
	SCALE IN FEET
'n	0 30 60
	REVISION DATE DESIGN BY DRAWN BY REVIEWED BY
TITLE:	2022-01-24 SAH SAH SRV
	NDWATER ANALYTICAL RESULTS NOVEMBER 12, 2021
PROJECT:	
	GOS CANYON UNIT COM A #142E N JUAN COUNTY, NEW MEXICO
	Figure No.:

() Stantec

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	<u>GEND.</u>
<u> </u>	APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
	- ACCESS ROAD
	- UNKNOWN LINE (POTENTIALLY ABANDONED)
	 LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011 FENCE
— P₩- —	PRODUCED WATER LINE
—ucc- —	
—G— —	UNDERGROUND GAS LINE
	APPROXIMATE FORMER DITCH
	APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
+	MONITORING WELL
\otimes	ABANDONED MONITORING WELL
+	SIMCO MONITORING WELL
\$	NEW BP WELL (10/29/2018)
۲	WELLHEAD
Δ	SMA BENCHMARK
∅	RIG ANCHOR
NOTES:	
545.90	GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
5433,55	WATER LEVEL ELEVATION CONTOUR (DASHED WHERE INFERRED, FEET ABOVE MEAN SEA LEVEL)
	DIRECTION OF APPARENT GROUNDWATER FLOW
MW-4 WAS A BP FORMER	CATIONS ARE APPROXIMATE. SOIL BORING ONLY (NO WELL CONSTRUCTED) PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED 2011 FIGURE FROM BLAGG ENGINEERING.
ų	SCALE IN FEET

TITLE:

GROUNDWATER ELEVATION MAP NOVEMBER 12, 2021

REVISION

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PROJECT:

GALLEGOS CANYON UNIT COM A #142E SAN JUAN COUNTY, NEW MEXICO

Stantec Figure No.: 6

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APPENDICES

- APPENDIX A NOTIFICATIONS OF SAMPLING ACTIVITIES
- APPENDIX B WASTEWATER DISPOSAL DOCUMENTATION
- APPENDIX C GROUNDWATER SAMPLING ANALYTICAL REPORTS

APPENDIX A



From:	Varsa, Steve
To:	Smith, Cory, EMNRD
Cc:	<u>Griswold, Jim, EMNRD;</u> <u>Wiley, Joe</u>
Subject:	El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date:	Wednesday, May 12, 2021 2:45:52 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	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	05/19/2021
Fields A#7A	nAUTOfAB000176	05/22/2021
Fogelson 4-1	nAUTOfAB000192	05/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	05/21/2021
GCU Com A #142E	nAUTOfAB000219	05/21/2021
James F. Bell #1E	nAUTOfAB000291	05/23/2021
Johnston Fed #4	nAUTOfAB000305	05/18/2021
Johnston Fed #6A	nAUTOfAB000309	05/18/2021
K27 LDO72	nAUTOfAB000316	05/19/2021
Knight #1	nAUTOfAB000324	05/21/2021
Lateral L 40 Line Drip	nAUTOfAB000335	05/23/2021
Miles Fed #1A	nAUTOfAB000391	05/19/2021
Sandoval GC A #1A	nAUTOfAB000635	05/18/2021
Standard Oil Com #1	nAUTOfAB000666	05/19/2021
State Gas Com N #1	nAUTOfAB000668	05/22/2021

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 <u>steve.varsa@stantec.com</u>

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From:	Varsa, Steve
To:	Smith, Cory, EMNRD
Cc:	Griswold, Jim, EMNRD; Wiley, Joe
Subject:	El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date:	Wednesday, November 03, 2021 10:14:55 AM

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	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	11/11/2021
Fields A#7A	nAUTOfAB000176	11/14/2021
Fogelson 4-1	nAUTOfAB000192	11/14/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/12/2021
GCU Com A #142E	nAUTOfAB000219	11/12/2021
James F. Bell #1E	nAUTOfAB000291	11/13/2021
Johnston Fed #4	nAUTOfAB000305	11/15/2021
Johnston Fed #6A	nAUTOfAB000309	11/15/2021
K27 LDO72	nAUTOfAB000316	11/11/2021
Knight #1	nAUTOfAB000324	11/12/2021
Lateral L 40 Line Drip	nAUTOfAB000335	11/13/2021
Miles Fed #1A	nAUTOfAB000391	11/11/2021
Sandoval GC A #1A	nAUTOfAB000635	11/15/2021
Standard Oil Com #1	nAUTOfAB000666	11/11/2021
State Gas Com N #1	nAUTOfAB000668	11/14/2021

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 <u>steve.varsa@stantec.com</u>

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APPENDIX B



D/	ATE	_	15-11-11			DEL.	TKT#.				
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200	RDERED B	Y:	The Willey			COD	(Print Full	Name)	/		
de la com	ASTE DES	CRIPTION:	Exempt Oilfield Waste		Produced Wat	er Drill	ing/Completi	on Fluids			
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	NO.	TRUCK	LOCATI	ON(S)	VOLUME	COST	H2S	COST	TOTAL	TIME	
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	2		GLY LOM A A	yre					'21 May	21 342	1p
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3/30/2	l,	Ann y	n alig	, representative or auth	orized agent for				da	hereby	152
by OCD:	above descr	ibed waste is	the Resource Conservation and : RCRA Exempt: Oil field wastes	A Recovery Act (RCRA) and the generated from oil and gas ATTENDANT SIGNATU	exploration and	ntal Protectio production c	n Agency's Ju perations and	liy 1988 reg dare not mi	ulatory determin xed with non -ex	ation, the empt waste.	
Received								112	SAN JUAN PRINT	ING 2020 1973-	1

BAS DATE GENERATO HAULING C ORDERED E WASTE DES STATE:		Pasa C Pasa C Co Daz Dut	TREATME	nfield, NM 87413 5-334-3013	DEL DEL DEL DEL DEL DEL DEL DEL	ling/Complet	M -001-0005 ument, Form A A A I Name) ion Fluids	c c G	
	TRUCK	LO	CATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Knight			70				TIME
2		Gallegose	ancien unit 123		10			(OP1 NOU	13 5=31pm
3		Garcom	A #1/AZ =						
4		Lateral 2	- 10 .						
5	1	James F.	Bell#1F						
I, certify that ac	cording to th	ne Resource Conservation	representative or auth	orized agent for				da	horoby
above describ	bed waste is:	RCRA Exempt: Oil field wa	representative or auth and Recovery Act (RCRA) and th istes generated from oil and gas	e US Environment exploration and p	al Protection roduction op	Agency's July erations and a	1988 regu are not mixe	latory determina ed with non -exer	tion, the mpt waste.
Approve	d	Denied	ATTENDANT SIGNATU	RE	~		>		
								SAN JUAN PRINTIN	G 2020 1973-1

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APPENDIX C



Received by OCD: 3/30/2022 12:17:07 PM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-203813-1

Client Project/Site: GCU Com A #142E

For:

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

Attn: Steve Varsa

Marth Elvered

Authorized for release by: 6/7/2021 9:07:22 PM

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

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.

Released to Imaging: 4/30/2024 2:28:37 PM

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2

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Method Summary	23
Chain of Custody	24
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Definitions/Glossary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Job ID: 400-203813-1

bbteviation Tese commonly used abbreviations ary any not be present in this report. Image: Common Street Liquid Image: Common Street Liquid Attentin (Common Street Liquid A	Glossary		3
R Percent Recovery Image: Control Image: Contro <ttttttt< td=""> Image: Control Image: Control<th>Abbreviation</th><th>These commonly used abbreviations may or may not be present in this report.</th><th></th></ttttttt<>	Abbreviation	These commonly used abbreviations may or may not be present in this report.	
FL Contains Free Liquid 5 FU Contrains No Free Liquid 6 FV Contains No Free Liquid 6 FX Duplicate Error Ratio (normalized absolute difference) 7 Li Fac Dublion Factor 7 L, RA, RE, IN Indicates a Dublion, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample 7 LC Decision Level Concentration (Radiochemistry) 8 DD Estimated Detection Limit (Dioxin) 8 DD Limit of Detection (DoD/DOE) 9 CL Extraction (DoD/DOE) 9 DD Limit of Detection (DoD/DOE) 9 CL Imit of Quanitation (DoD/DOE) 9 DL Limit of Detection Limit (Radiochemistry) 9 DA Minimum Detectable Concentration (Radiochemistry) 10 DL Minimum Detectable Concentration (Radiochemistry) 10 DL Minimum Detectable Concentration (Radiochemistry) 11 DL Minimum Detectable Concentration (Radiochemistry) 11 <t< td=""><td>¤</td><td>Listed under the "D" column to designate that the result is reported on a dry weight basis</td><td></td></t<>	¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
FU Colony Forming Unit 2 NF Contains No Free Liquid 6 ER Duplicate Error Ratio (normalized absolute difference) 6 IF ac Dilution Factor 7 L Detection Limit (DoDDOE) 7 L, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample 8 DC Decision Level Concentration (Radiochemistry) 9 D1 Estimated Detection Limit (DioXin) 9 D2 Limit of Detection (DoDDOE) 9 C1 Expression (Radiochemistry) 9 D2 Limit of Detection (Radiochemistry) 9 D3 Minimum Detectable Activity (Radiochemistry) 9 D4 Minimum Detectable Concentration (Radiochemistry) 9 D5 Minimum Detectable Concentration (Radiochemistry) 10 D6 Method Detection Limit 10 D6 Method Quantitation Limit 13 D7 Method Quantitation Limit 13 D8 No Calculated 13 D9 No Elected at the reporting limit (or MDL or EDL if shown) 14 D8 Negative / Absent 14 D9 No Elected at the reporting limit (or MDL or EDL if shown) 14	%R	Percent Recovery	
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EF Toxicity Equivalent Factor (Dioxin)	RL	Reporting Limit or Requested Limit (Radiochemistry)	
	RPD	Relative Percent Difference, a measure of the relative difference between two points	
EQ Toxicity Equivalent Quotient (Dioxin)	TEF	Toxicity Equivalent Factor (Dioxin)	
	TEQ	Toxicity Equivalent Quotient (Dioxin)	

Too Numerous To Count

TNTC

Job ID: 400-203813-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-203813-1

Comments

No additional comments.

Receipt

The samples were received on 5/25/2021 9:35 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 1.3° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-01 (400-203813-2), MW-2 (400-203813-4) and MW-8 (400-203813-9). Elevated reporting limits (RLs) are provided.

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

VOA Prep

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

Job ID: 400-203813-1

Received by OCD: 3/30/2022 12:17:07 PM

5

Detection Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: TB-01

Job ID: 400-203813-1

Lab Sample ID: 400-203813-1

No Detections.

Client Sample ID: DUP-01					Lab	o Sampl	e ID: 400-203813-
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	d Prep Type
Benzene	590		5.0	ug/L	5	8260C	Total/NA
Client Sample ID: MW-1					Lat	o Sampl	e ID: 400-203813-
 Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	d Prep Type
Benzene	54		1.0	ug/L	1	8260C	Total/NA
Client Sample ID: MW-2					Lat	o Sampl	e ID: 400-203813-
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	d Prep Type
Benzene	960		10	ug/L	10	8260C	Total/NA
Ethylbenzene	600		10	ug/L	10	8260C	Total/NA
Xylenes, Total - DL	6100		250	ug/L	25	8260C	Total/NA
Client Sample ID: MW-3					Lat	o Sampl	e ID: 400-203813-
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	d Prep Type
Benzene	2.1		1.0	ug/L	1	8260C	Total/NA
Client Sample ID: MW-5					Lat	o Sampl	e ID: 400-203813-
No Detections.							
Client Sample ID: MW-6					Lat	o Sampl	e ID: 400-203813-
No Detections.							
Client Sample ID: MW-7					Lat	o Sampl	e ID: 400-203813-
No Detections.							
Client Sample ID: MW-8					Lat	Sampl	e ID: 400-203813-

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type	
Benzene	790	5.0	ug/L	5	8260C	Total/NA	
Ethylbenzene	6.3	5.0	ug/L	5	8260C	Total/NA	

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

5 6 7

Job ID: 400-203813-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
400-203813-1	TB-01	Water	05/21/21 13:00	05/25/21 09:35	
400-203813-2	DUP-01	Water	05/21/21 15:00	05/25/21 09:35	
400-203813-3	MW-1	Water	05/21/21 14:11	05/25/21 09:35	
400-203813-4	MW-2	Water	05/21/21 14:22	05/25/21 09:35	
400-203813-5	MW-3	Water	05/21/21 14:29	05/25/21 09:35	
400-203813-6	MW-5	Water	05/21/21 14:33	05/25/21 09:35	
400-203813-7	MW-6	Water	05/21/21 14:37	05/25/21 09:35	
400-203813-8	MW-7	Water	05/21/21 14:47	05/25/21 09:35	
400-203813-9	MW-8	Water	05/21/21 14:00	05/25/21 09:35	

Eurofins TestAmerica, Pensacola

Client: Stantec Consulting Services Inc

Job ID: 400-203813-1

Client Sample ID: TB-01 Date Collected: 05/21/21 13:00

Project/Site: GCU Com A #142E

Date Received: 05/25/21 09:35

Method: 8260C - Volatile Or	ganic Compounds I	oy GC/MS						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 16:48	1
Toluene	<1.0		1.0	ug/L			06/03/21 16:48	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 16:48	1
Xylenes, Total	<10		10	ug/L			06/03/21 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118		-		06/03/21 16:48	1
Dibromofluoromethane	104		81 - 121				06/03/21 16:48	1
Toluene-d8 (Surr)	92		80 - 120				06/03/21 16:48	1

Lab Sample ID: 400-203813-1 Matrix: Water
Job ID: 400-203813-1

Matrix: Water

Lab Sample ID: 400-203813-2

Client Sample ID: DUP-01 Date Collected: 05/21/21 15:00

Project/Site: GCU Com A #142E

Date Received: 05/25/21 09:35

Method: 8260C - Volatile Or	ganic Compounds I	by GC/MS						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	590		5.0	ug/L			06/03/21 20:07	5
Toluene	<5.0		5.0	ug/L			06/03/21 20:07	5
Ethylbenzene	<5.0		5.0	ug/L			06/03/21 20:07	5
Xylenes, Total	<50		50	ug/L			06/03/21 20:07	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118		-		06/03/21 20:07	5
Dibromofluoromethane	104		81 _ 121				06/03/21 20:07	5
Toluene-d8 (Surr)	91		80 - 120				06/03/21 20:07	5

Job ID: 400-203813-1

Client Sample ID: MW-1 Date Collected: 05/21/21 14:11

Project/Site: GCU Com A #142E

Date Received: 05/25/21 09:35

Method: 8260C - Volatile Or	ganic Compounds I	by GC/MS						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	54		1.0	ug/L			06/03/21 17:10	1
Toluene	<1.0		1.0	ug/L			06/03/21 17:10	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 17:10	1
Xylenes, Total	<10		10	ug/L			06/03/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		78 - 118		-		06/03/21 17:10	1
Dibromofluoromethane	102		81 - 121				06/03/21 17:10	1
Toluene-d8 (Surr)	90		80 - 120				06/03/21 17:10	1

203813-1

5 6 7

Lab Sample ID: 400-203813-3

Matrix: Water

Client Sample Results

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Matrix: Water

Job ID: 400-203813-1

Lab Sample ID: 400-203813-4

Project/Site: GCU Com A #142E Client Sample ID: MW-2 Date Collected: 05/21/21 14:22 Date Received: 05/25/21 09:35

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	960		10	ug/L			06/04/21 13:11	10
Toluene	<10		10	ug/L			06/04/21 13:11	10
Ethylbenzene	600	10 ug/L			06/04/21 13:11	10		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		78 - 118		-		06/04/21 13:11	10
Dibromofluoromethane	106		81 - 121				06/04/21 13:11	10
Toluene-d8 (Surr)	96		80 - 120				06/04/21 13:11	10
Method: 8260C - Volatile Or	ganic Compounds I	by GC/MS -	DL					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	6100		250	ug/L			06/04/21 14:39	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		78 - 118		-		06/04/21 14:39	25
Dibromofluoromethane	102		81 - 121				06/04/21 14:39	25
Bibi officiationality								

Job ID: 400-203813-1

Project/Site: GCU Com A #142E **Client Sample ID: MW-3** Date Collected: 05/21/21 14:29

Date Received: 05/25/21 09:35

Method: 8260C - Volatile Org	ganic Compounds I	oy GC/MS						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.1		1.0	ug/L			06/03/21 17:32	1
Toluene	<1.0		1.0	ug/L			06/03/21 17:32	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 17:32	1
Xylenes, Total	<10		10	ug/L			06/03/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		78 - 118		-		06/03/21 17:32	1
Dibromofluoromethane	105		81 - 121				06/03/21 17:32	1
Toluene-d8 (Surr)	92		80 - 120				06/03/21 17:32	1

Lab Sample ID: 400-203813-5

5 6 7

Matrix: Water

Job ID: 400-203813-1

Client Sample ID: MW-5 Date Collected: 05/21/21 14:33

Project/Site: GCU Com A #142E

Lab Sample ID: 400-203813-6
Matrix: Water

Date Received: 05/25/21 09:35

	ganic Compounds I	-						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 17:54	1
Toluene	<1.0		1.0	ug/L			06/03/21 17:54	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 17:54	1
Xylenes, Total	<10		10	ug/L			06/03/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118		-		06/03/21 17:54	1
Dibromofluoromethane	104		81 - 121				06/03/21 17:54	1
Toluene-d8 (Surr)	89		80 - 120				06/03/21 17:54	1

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Job ID: 400-203813-1

Client Sample ID: MW-6 Date Collected: 05/21/21 14:37 Date Received: 05/25/21 09:35

Project/Site: GCU Com A #142E

Lab Sample ID: 400-203813-7

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 18:16	1
Toluene	<1.0		1.0	ug/L			06/03/21 18:16	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 18:16	1
Xylenes, Total	<10		10	ug/L			06/03/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118		-		06/03/21 18:16	1
Dibromofluoromethane	103		81 - 121				06/03/21 18:16	1
Toluene-d8 (Surr)	90		80 - 120				06/03/21 18:16	1

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Job ID: 400-203813-1

Matrix: Water

Lab Sample ID: 400-203813-8

Project/Site: GCU Com A #142E Client Sample ID: MW-7 Date Collected: 05/21/21 14:47

Date Received: 05/25/21 09:35

Method: 8260C - Volatile Or	ganic Compounds t	oy GC/MS						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 18:38	1
Toluene	<1.0		1.0	ug/L			06/03/21 18:38	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 18:38	1
Xylenes, Total	<10		10	ug/L			06/03/21 18:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118		-		06/03/21 18:38	1
Dibromofluoromethane	105		81 - 121				06/03/21 18:38	1
Toluene-d8 (Surr)	91		80 - 120				06/03/21 18:38	1

Matrix: Water

Client Sample Results

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: MW-8 Date Collected: 05/21/21 14:00

Date Received: 05/25/21 09:35

Method: 8260C - Volatile Or	ganic Compounds	by GC/MS						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	790		5.0	ug/L			06/04/21 12:48	5
Toluene	<5.0		5.0	ug/L			06/04/21 12:48	5
Ethylbenzene	6.3		5.0	ug/L			06/04/21 12:48	5
Xylenes, Total	<50		50	ug/L			06/04/21 12:48	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		78 - 118		-		06/04/21 12:48	5
Dibromofluoromethane	104		81 - 121				06/04/21 12:48	5
Toluene-d8 (Surr)	95		80 - 120				06/04/21 12:48	5

Job ID: 400-203813-1

Lab Sample ID: 400-203813-9

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QC Association Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

GC/MS VOA

Analysis Batch: 534185

LCS 400-534361/1003

400-203817-A-4 MS

400-203817-A-4 MSD

Lab Control Sample

Matrix Spike Duplicate

Matrix Spike

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203813-1	TB-01	Total/NA	Water	8260C	
400-203813-2	DUP-01	Total/NA	Water	8260C	
400-203813-3	MW-1	Total/NA	Water	8260C	
400-203813-5	MW-3	Total/NA	Water	8260C	
400-203813-6	MW-5	Total/NA	Water	8260C	
400-203813-7	MW-6	Total/NA	Water	8260C	
400-203813-8	MW-7	Total/NA	Water	8260C	
VIB 400-534185/6	Method Blank	Total/NA	Water	8260C	
LCS 400-534185/1003	Lab Control Sample	Total/NA	Water	8260C	
400-204023-C-14 MS	Matrix Spike	Total/NA	Water	8260C	
400-204023-C-14 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
nalysis Batch: 53436	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203813-4	MW-2	Total/NA	Water	8260C	
400-203813-4 - DL	MW-2	Total/NA	Water	8260C	
400-203813-9	MW-8	Total/NA	Water	8260C	
MB 400-534361/6	Method Blank	Total/NA	Water	8260C	

Total/NA

Total/NA

Total/NA

Water

Water

Water

8260C

8260C

8260C

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

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

Lab Sample ID: MB 400-534 Matrix: Water Analysis Batch: 534185	185/6					Client S	ample ID: Metho Prep Type: 1	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 10:54	1
Toluene	<1.0		1.0	ug/L			06/03/21 10:54	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 10:54	1
Xylenes, Total	<10		10	ug/L			06/03/21 10:54	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118		-		06/03/21 10:54	1
Dibromofluoromethane	102		81 - 121				06/03/21 10:54	1

80 - 120

93

Lab Sample ID: LCS 400-534185/1003 Matrix: Water

Analysis Batch: 534185

Toluene-d8 (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	49.9		ug/L		100	70 - 130	
Toluene	50.0	45.1		ug/L		90	70 - 130	
Ethylbenzene	50.0	46.2		ug/L		92	70 - 130	
Xylenes, Total	100	92.6		ug/L		93	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	94		78 - 118
Dibromofluoromethane	106		81 - 121
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: 400-204023-C-14 MS Matrix: Water Analysis Batch: 534185

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<1.0		50.0	51.2		ug/L		102	56 - 142	
Toluene	<1.0		50.0	45.3		ug/L		89	65 - 130	
Ethylbenzene	<1.0		50.0	45.1		ug/L		90	58 ₋ 131	
Xylenes, Total	<10		100	90.5		ug/L		90	59 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	91		78 - 118
Dibromofluoromethane	103		81 - 121
Toluene-d8 (Surr)	91		80 - 120

Lab Sample ID: 400-204023-C-14 MSD Matrix: Water

Analysis Batch: 534185

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<1.0		50.0	48.7		ug/L		97	56 - 142	5	30
Toluene	<1.0		50.0	42.6		ug/L		83	65 _ 130	6	30
Ethylbenzene	<1.0		50.0	40.4		ug/L		81	58 - 131	11	30

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Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Job ID: 400-203813-1

06/03/21 10:54

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

1

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

Released to Imaging: 4/30/2024 2:28:37 PM

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Job ID: 400-203813-1

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

Lab Sample ID: 400-204023-	C-14 MSD						Client	Sample II	D: Matrix Spike I	
Matrix: Water									Prep Type:	Total/N/
Analysis Batch: 534185										
	Sample S	ample	Spike	MSD	MSD				%Rec.	RPI
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		%Rec	Limits RF	D Lim
Xylenes, Total	<10		100	80.2		ug/L		80	59 - 130	12 3
	MSD M	//SD								
Surrogate	%Recovery 0	Qualifier	Limits							
4-Bromofluorobenzene	95		78 - 118							
Dibromofluoromethane	104		81 - 121							
Toluene-d8 (Surr)	92		80 - 120							
Lab Sample ID: MB 400-5343	361/6							Client S	Sample ID: Meth	od Blan
Matrix: Water	-								Prep Type:	
Analysis Batch: 534361										
· · · · · · · · · · · · · · · · · · ·		ИВ МВ								
Analyte	Res	ult Qualifier	RL		Unit		D	Prepared	Analyzed	Dil Fa
Benzene	<	1.0	1.0		ug/L			-	06/04/21 10:58	·
Toluene	<'	1.0	1.0		ug/L				06/04/21 10:58	
Ethylbenzene	<'	1.0	1.0		ug/L				06/04/21 10:58	
Xylenes, Total	<	:10	10		ug/L				06/04/21 10:58	
	I	NB MB								
Surrogate	%Recove	ery Qualifier	Limits					Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene	1	03	78 - 118						06/04/21 10:58	
Dibromofluoromethane	1	04	81 - 121						06/04/21 10:58	
Toluene-d8 (Surr)		92	80 - 120						06/04/21 10:58	
Lab Sample ID: LCS 400-534	361/1003						Clie	nt Sample	e ID: Lab Contro	I Sample
Matrix: Water									Prep Type:	Total/N/
Analysis Batch: 534361										
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	0	%Rec	Limits	
Benzene			50.0	49.3		ug/L		99	70 - 130	
Toluene			50.0	42.9		ug/L		86	70 ₋ 130	
Ethylbenzene			50.0	43.9		ug/L		88	70 ₋ 130	
Xylenes, Total			100	86.7		ug/L		87	70 - 130	
	LCS L	.cs								
Surrogate	%Recovery (l imits							

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	103		81 - 121
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: 400-203817-A-4 MS

Matrix: Water Analysis Batch: 534361

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<1.0		50.0	51.1		ug/L		102	56 - 142
Toluene	<1.0		50.0	39.3		ug/L		79	65 _ 130
Ethylbenzene	<1.0		50.0	37.0		ug/L		74	58 - 131
Xylenes, Total	<10		100	74.5		ug/L		75	59 - 130

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

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

Lab Sample ID: 400-203817-A-4 MS

Matrix: Water Analysis Batch: 534361

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	94		78 - 118
Dibromofluoromethane	104		81 - 121
Toluene-d8 (Surr)	87		80 - 120

Lab Sample ID: 400-203817-A-4 MSD Matrix: Water

Analysis Batch: 534361

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<1.0		50.0	47.2		ug/L		94	56 - 142	8	30
<1.0		50.0	37.8		ug/L		76	65 _ 130	4	30
<1.0		50.0	35.6		ug/L		71	58 _ 131	4	30
<10		100	71.3		ug/L		71	59 _ 130	4	30
	Result <1.0	Result Qualifier <1.0	Result Qualifier Added <1.0	Result Qualifier Added Result <1.0	Result Qualifier Added Result Qualifier <1.0	Result Qualifier Added Result Qualifier Unit <1.0	Result Qualifier Added Result Qualifier Unit D <1.0	Result Qualifier Added Result Qualifier Unit D %Rec <1.0	Result Qualifier Added Result Qualifier Unit D %Rec Limits <1.0	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <1.0

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	95		78 - 118
Dibromofluoromethane	103		81 - 121
Toluene-d8 (Surr)	91		80 - 120

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

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Lab Chronicle

Job ID: 400-203813-1

Matrix: Water

TAL PEN

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 400-203813-1

06/03/21 20:07 CAR

Lab Sample ID: 400-203813-3

Lab Sample ID: 400-203813-4

Lab Sample ID: 400-203813-5

Lab Sample ID: 400-203813-6

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: TB-01 Date Collected: 05/21/21 13:00

Date Received: 05/25/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534185	06/03/21 16:48	CAR	TAL PEN
	Instrume	nt ID: CH_LARS								
lient Samp	le ID: DUP-0	1						Lab Sample	e ID: 400	0-203813-3
ate Collected	l: 05/21/21 15:0	0							Ν	Aatrix: Wate
Date Received	: 05/25/21 09:3	5								
ate Received		-		Dil	Initial	Final	Datab	Drenered		
Date Received	Batch	5 Batch		Dil	Initial	Final	Batch	Prepared		

5 mL

5 mL

534185

5

011				
	Instrume	nt ID: CH_LA	RS	
Total/NA	Analysis	8260C		

Client Sample ID: MW-1 Date Collected: 05/21/21 14:11

Date Received: 05/25/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534185	06/03/21 17:10	CAR	TAL PEN
	Instrume	nt ID: CH_LARS								

Client Sample ID: MW-2 Date Collected: 05/21/21 14:22

Date Received: 05/25/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	5 mL	5 mL	534361	06/04/21 13:11	WPD	TAL PEN
	Instrume	nt ID: CH_LARS								
Total/NA	Analysis	8260C	DL	25	5 mL	5 mL	534361	06/04/21 14:39	WPD	TAL PEN
	Instrume	nt ID: CH_LARS								

Client Sample ID: MW-3

Date Collected: 05/21/21 14:29 Date Received: 05/25/21 09:35

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 5 mL	Final Amount 5 mL	Batch 	Prepared or Analyzed 06/03/21 17:32	Analyst CAR	_ Lab
TOLdi/INA	,			I	5 IIIL	5 IIIL	554165	00/03/21 17.32	UAR	IALFEN
	Instrume	nt ID: CH_LARS								

Client Sample ID: MW-5

Date Collected: 05/21/21 14:33

Date Received: 05/25/21 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534185	06/03/21 17:54	CAR	TAL PEN
	Instrume	nt ID: CH_LARS								

Lab Chronicle

Job ID: 400-203813-1

Matrix: Water

Lab Sample ID: 400-203813-7

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: MW-6 D

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534185	06/03/21 18:16	CAR	TAL PEN
	Instrume	nt ID: CH_LARS								
lient Samp	le ID: MW-7							Lab Sample	e ID: 400	0-203813
-	le ID: MW-7 : 05/21/21 14:4	7						Lab Sample		
ate Collected		-						Lab Sample		
ate Collected	: 05/21/21 14:4	-		Dil	Initial	Final	Batch	Lab Sample		D-203813 <i>M</i> atrix: Wat
ate Collected	: 05/21/21 14:4 : 05/25/21 09:3	5	Run	Dil Factor	Initial Amount	Final Amount	Batch Number			
ate Collected	: 05/21/21 14:4 : 05/25/21 09:3 Batch	5 Batch	Run					Prepared	N	Aatrix: Wat

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	5 mL	5 mL	534361	06/04/21 12:48	WPD	TAL PEN

Laboratory References:

Date Collected: 05/21/21 14:00

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

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	01-12-22
Arkansas DEQ	State	88-0689	09-02-21
alifornia	State	2510	06-30-21
orida	NELAP	E81010	06-30-21
eorgia	State	E81010(FL)	06-30-21
nois	NELAP	200041	10-09-21
va	State	367	08-01-22
nsas	NELAP	E-10253	10-31-21
ntucky (UST)	State	53	06-30-21
ntucky (WW)	State	KY98030	12-31-21
siana	NELAP	30976	06-30-21
isiana (DW)	State	LA017	12-31-21
yland	State	233	09-30-21
sachusetts	State	M-FL094	06-30-21
igan	State	9912	06-30-21
Jersey	NELAP	FL006	06-30-21
h Carolina (WW/SW)	State	314	12-31-21
homa	State	9810	08-31-21
nsylvania	NELAP	68-00467	01-31-22
de Island	State	LAO00307	12-30-21
uth Carolina	State	96026	06-30-21
nessee	State	TN02907	06-30-21
S	NELAP	T104704286	09-30-21
Fish & Wildlife	US Federal Programs	058448	07-31-21
A	US Federal Programs	P330-21-00056	05-17-24
inia	NELAP	460166	06-14-21
shington	State	C915	05-15-22
est Virginia DEP	State	136	06-30-21

Method Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Job ID: 400-203813-1

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

TestAmerica, Pensacola		32514
	nore Drive	FL 32514
Eurotins	3355 McLemore Drive	Pensacola.

Chain of Custody Record

🐮 curofins

Received by OCD: 3/30/2022 12:17:07 PM

Client Information	Sampler: S.C.C. M.C.	Lab PM: Edwards Marty D	Carrier Tracking No(s):	COC No:
Client Contact: Steve Varsa	5-96	E-Mail: Morty Educado © F	State of Origin:	400-102801-36536.1 Page:
Company: Stantec Consulting Services Inc				Page 1 of 1 Job #:
Address: 11153 Aurora Avenue	Due Date Requested:	Anarysis	Kequested	Preservation Codes.
City: Des Moines	TAT Requested (days):			
State. Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			C - Zn Acetate 0 - AsNaO2 D - Nitric Acid P - Na2O4S
Phone: 303-291-2239(Tel)	v.			
Email: steve.varsa@stantec.com	:# OM	0) 0(0)	Fau:	G - Anternor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone
Project Name: GCU Com A #142E.00	Project #: 40005479	N 10 S	Ĵ	J - DI Water K - EDTA I - EDA
She Cru 142	SSOW#:	EX 856	Į	
102-90-50-M2-67-67-501		18 (00	⁴⁰⁰⁻²⁰³⁸¹³ COC	et of
-266-05	Type	etite M mu		dmuł
Sample Identification	Sample Date Time G=grab) BT	e Field E		
	Preseiva	XX		E Special Instructions/Note:
0	5/21/2021 1300 C7	Water - 2		-
D04-01	5/4/1011 1500 CJ	Water		DID DID
1-MW	5/21/2011 1411 CJ	Water		24brildna C
	5/21/2011 1422 CV	Water		0~
1	5/21/202/12/5	Water 3		0
MW-S	5/21/2021/1432 (J	Water - 3		
9-MW	5/21/201/1437 C	Water - 2		~
t-mw	5 thhi 12/5	Water 2		
MW-8	5/21/201 1400 (2
CA.				2
NX V				
		Sample Disposal (A fee may be assessed if	be assessed if samples and more	of and framework and the second framework of the second second second second second second second second second
Deliverable Requested: 1. 11. 11. 1V. Other Constant D	Poison B Unknown Radiological	Return To Client	iosal Bv	auripres are retained longer than 1 month)
Emoty Vit Bolizonisted I. II, III, IV, Ollel (specify)		Special Instructions/QC Requirements:	and fa mar	Months
Linipty Nit Relinquished by:	Date:	Time:	Method of Shipment:	
weindusted by Am A Call	4/2m1 0800	Company Received by: CAN	ë	i C
reinquished by:		Company Received by:	7	VUU Company
Relinquished by:	Date/Time: Co	Company Received by:	Date/Time	
Custody Seals Intact: Custody Seal No.:		Cooler Temperaturation ^o C and Other Demoter	52-5	-21/0935 CTA
			1 22 1	24 >

Job Number: 400-203813-1

List Source: Eurofins TestAmerica, Pensacola

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Login Number: 203813 List Number: 1

Login Number: 203813		List Source: Eurofins TestAmerica, Pensacola	_
List Number: 1			5
Creator: Whitley, Adrian			
Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> <td></td>	N/A		
The cooler's custody seal, if present, is intact.	N/A		
Sample custody seals, if present, are intact.	N/A		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True	1.3°C IR7	
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		13
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		14
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		

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-211283-1

Client Project/Site: GCU Com A #142E

For:

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

Attn: Steve Varsa

utmin

Authorized for release by: 11/30/2021 11:51:29 AM

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



12 13 14

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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.

Released to Imaging: 4/30/2024 2:28:37 PM

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Detection Summary	5
Sample Summary	6
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QC Sample Results	17
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Method Summary	24
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Definitions/Glossary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

3

Job ID: 400-211283-1

Qualifiers GC/MS VOA

GC/MS VOA Qualifier	Qualifier Description	А
F1	MS and/or MSD recovery exceeds control limits.	
	,	5
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	7
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	Ο
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	9
DL	Detection Limit (DoD/DOE)	10
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	10
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	11
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	12
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	14
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	

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Job ID: 400-211283-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-211283-1

Comments

No additional comments.

Receipt

The samples were received on 11/16/2021 9:10 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 0.7° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (400-211283-4). 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.

Job ID: 400-211283-1

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Job ID: 400-211283-1

Lab Sample ID: 400-211283-1

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: TB-01

No De	etections.

Client Sample ID: DUP-01					Lab Sa	mple ID:	400-211283-
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Benzene	130		1.0	ug/L	1	8260C	Total/NA
Ethylbenzene	5.5		1.0	ug/L	1	8260C	Total/NA
Xylenes, Total	18		10	ug/L	1	8260C	Total/NA
Client Sample ID: MW-1					Lab Sa	mple ID:	400-211283-
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Benzene	2.5		1.0	ug/L	1	8260C	Total/NA
Client Sample ID: MW-2					Lab Sa	mple ID:	400-211283-
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Benzene	660		20	ug/L	20	8260C	Total/NA
Ethylbenzene	520		20	ug/L	20	8260C	Total/NA
Xylenes, Total	3200		200	ug/L	20	8260C	Total/NA
Client Sample ID: MW-3					Lab Sa	mple ID:	400-211283-
No Detections.							
Client Sample ID: MW-5					Lab Sa	mple ID:	400-211283-
No Detections.							
Client Sample ID: MW-6					Lab Sa	mple ID:	400-211283-
No Detections.							
Client Sample ID: MW-7					Lab Sa	mple ID:	400-211283-
No Detections.							
Client Sample ID: MW-8					Lab Sa	mple ID:	400-211283-
 Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
Benzene	150		1.0	ug/L	1	8260C	Total/NA
Ethylbenzene	7.2		1.0	ug/L	1	8260C	Total/NA
Xylenes, Total	24						

This Detection Summary does not include radiochemical test results.

·		 				
Benzene	150	 1.0	ug/L	1	8260C	Total/NA
Ethylbenzene	7.2	1.0	ug/L	1	8260C	Total/NA
Xylenes, Total	24	10	ug/L	1	8260C	Total/NA

Sample Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211283-1	TB-01	Water	11/12/21 11:00	11/16/21 09:10
400-211283-2	DUP-01	Water	11/12/21 13:00	11/16/21 09:10
400-211283-3	MW-1	Water	11/12/21 12:11	11/16/21 09:10
400-211283-4	MW-2	Water	11/12/21 12:16	11/16/21 09:10
400-211283-5	MW-3	Water	11/12/21 12:22	11/16/21 09:10
400-211283-6	MW-5	Water	11/12/21 12:26	11/16/21 09:10
400-211283-7	MW-6	Water	11/12/21 12:30	11/16/21 09:10
400-211283-8	MW-7	Water	11/12/21 12:34	11/16/21 09:10
400-211283-9	MW-8	Water	11/12/21 12:00	11/16/21 09:10

Job ID: 400-211283-1

RL

1.0

1.0

1.0

10

Limits

72 - 119

75 - 126

64 - 132

Unit

ug/L

ug/L

ug/L

ug/L

D

Prepared

Prepared

Analyzed

11/23/21 17:42

11/23/21 17:42

11/23/21 17:42

11/23/21 17:42

Analyzed

11/23/21 17:42

11/23/21 17:42

11/23/21 17:42

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

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

Result Qualifier

<1.0

<1.0

<1.0

<10

%Recovery Qualifier

96

110

90

Client Sample ID: TB-01 Date Collected: 11/12/21 11:00 Date Received: 11/16/21 09:10

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

4-Bromofluorobenzene

Dibromofluoromethane

Toluene-d8 (Surr)

Surrogate

Eurofins TestAmerica, Pensacola

Job ID: 400-211283-1 **Matrix: Water** Dil Fac 1 1 1 1 Dil Fac 1 1 1

12 13

Lab Sample ID: 400-211283-1

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Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: DUP-01 Date Collected: 11/12/21 13:00 Date Received: 11/16/21 09:10

Analyte

Toluene-d8 (Surr)

zene	130	1.0

Result Qualifier

95

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

Benzene	130		1.0	ug/L		11/26/21 15:19	1	7
Toluene	<1.0		1.0	ug/L		11/26/21 15:19	1	
Ethylbenzene	5.5		1.0	ug/L		11/26/21 15:19	1	-
Xylenes, Total	18		10	ug/L		11/26/21 15:19	1	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	96		72 - 119			11/26/21 15:19	1	
Dibromofluoromethane	104		75 - 126			11/26/21 15:19	1	

64 - 132

RL

Unit

D

Prepared

Job ID: 400-211283-1

Analyzed

11/26/21 15:19

Lab Sample ID: 400-211283-2

Matrix: Water

Dil Fac

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: MW-1 Date Collected: 11/12/21 12:11 Date Received: 11/16/21 09:10

Dibromofluoromethane

Toluene-d8 (Surr)

Analyte	Result Qualifier	
Dennene	0.5	

109

106

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

Ethylbenzene Xylenes, Total	<1.0 <10	1.0 10	ug/L ug/L ug/L	11/24/21 17:43 11/24/21 17:43	
Surrogate 4-Bromofluorobenzene	%Recovery Qualif	ier <u>Limits</u> 72 - 119		Prepared Analyzed 11/24/21 17:43	Dil Fac

75 - 126

64 - 132

RL

Unit

D

Prepared

Job ID: 400-211283-1

Analyzed

11/24/21 17:43

11/24/21 17:43

Lab Sample ID: 400-211283-3 Matrix: Water

Dil Fac

1

1

Client Sample Results

Page 64 of 250

Job ID: 400-211283-1

Project/Site: GCU Com A #142E Client Sample ID: MW-2 Date Collected: 11/12/21 12:16

Lab Sample ID: 400-211283-4 Matrix: Water

Date Received: 11/16/21 09:10 Method: 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 20 ug/L 11/24/21 22:29 Benzene 660 20 Toluene <20 20 11/24/21 22:29 20 ug/L Ethylbenzene 520 20 ug/L 11/24/21 22:29 20 **Xylenes**, Total 200 ug/L 11/24/21 22:29 20 3200 %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene 72 - 119 11/24/21 22:29 91 20 Dibromofluoromethane 106 75 - 126 11/24/21 22:29 20 Toluene-d8 (Surr) 112 64 - 132 11/24/21 22:29 20

Eurofins TestAmerica, Pensacola

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: MW-3 Date Collected: 11/12/21 12:22 Date Received: 11/16/2

Job ID: 400-211283-1

Lab Sample ID: 400-211283-5

Matrix: Water

Page 65 of 250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<1.0		1.0	ug/L			11/24/21 18:09	1	1
Toluene	<1.0		1.0	ug/L			11/24/21 18:09	1	
Ethylbenzene	<1.0		1.0	ug/L			11/24/21 18:09	1	
Xylenes, Total	<10		10	ug/L			11/24/21 18:09	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	ī
4-Bromofluorobenzene	90		72 - 119				11/24/21 18:09	1	
Dibromofluoromethane	107		75 - 126				11/24/21 18:09	1	
Toluene-d8 (Surr)	104		64 - 132				11/24/21 18:09	1	

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: MW-5 Date Collected: 11/12/21 12:26 Date Received: 11/16/21 09:10

Eurofins Tes	tAmerica	Pensacola
	wanonou,	i chouoolu

5 6 7

Job ID: 400-211283-1

Lab Sample ID: 400-211283-6 Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/24/21 13:22	1
Toluene	<1.0		1.0	ug/L			11/24/21 13:22	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/21 13:22	1
Xylenes, Total	<10		10	ug/L			11/24/21 13:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		72 - 119				11/24/21 13:22	1
Dibromofluoromethane	106		75 - 126				11/24/21 13:22	1
Toluene-d8 (Surr)	106		64 - 132				11/24/21 13:22	1

RL

1.0

1.0

1.0

10

Limits

72 - 119

75 - 126

64 - 132

Unit

ug/L

ug/L

ug/L

ug/L

D

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

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

Result Qualifier

<1.0

<1.0

<1.0

<10

%Recovery Qualifier

89

106

105

Client Sample ID: MW-6 Date Collected: 11/12/21 12:30 Date Received: 11/16/21 09:10

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

4-Bromofluorobenzene

Dibromofluoromethane

Toluene-d8 (Surr)

Surrogate

Furofins	TestAmerica.	Pensacola

Job ID: 400-211283-1

Prepared

Prepared

Lab Sample ID: 400-211283-7 Matrix: Water

Analyzed

11/24/21 18:35

11/24/21 18:35

11/24/21 18:35

11/24/21 18:35

Analyzed

11/24/21 18:35

11/24/21 18:35

11/24/21 18:35

Dil Fac

Dil Fac

1

1

1

1

1

1

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: MW-7 Date Collected: 11/12/21 12:34 Date Received: 11/16/21 09:10

Delegend to	Turanium	1/20/2024	2.20.27 DM
Keleasea lo	<i>imaging</i> :	4/30/2024	2:28:37 PM

Eurofins TestAmerica, Pensacola

Job ID: 400-211283-1

Lab Sample ID: 400-211283-8 Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/24/21 19:01	1
Toluene	<1.0		1.0	ug/L			11/24/21 19:01	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/21 19:01	1
Xylenes, Total	<10		10	ug/L			11/24/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		72 - 119		-		11/24/21 19:01	1
Dibromofluoromethane	111		75 - 126				11/24/21 19:01	1
Toluene-d8 (Surr)	105		64 - 132				11/24/21 19:01	1



Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Client Sample ID: MW-8 Date Collected: 11/12/21 12:00 Date Received: 11/16/21

 Method: 8260C - Volatile Organic Compounds by GC/MS	
Date Received: 11/16/21 09:10	

Method: 8260C - Volatile	Organic Compo	unas by G	C/WS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	150		1.0	ug/L			11/26/21 15:44	1
Toluene	<1.0		1.0	ug/L			11/26/21 15:44	1
Ethylbenzene	7.2		1.0	ug/L			11/26/21 15:44	1
Xylenes, Total	24		10	ug/L			11/26/21 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		72 - 119				11/26/21 15:44	1
Dibromofluoromethane	106		75 - 126				11/26/21 15:44	1
Toluene-d8 (Surr)	96		64 - 132				11/26/21 15:44	1

Job ID: 400-211283-1

Matrix: Water

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Lab Sample ID: 400-211283-9

QC Association Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

GC/MS VOA

Analysis Batch: 557092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211283-1	TB-01	Total/NA	Water	8260C	
MB 400-557092/4	Method Blank	Total/NA	Water	8260C	
LCS 400-557092/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211352-A-6 MS	Matrix Spike	Total/NA	Water	8260C	
400-211352-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 557183

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
00-211283-3	MW-1	Total/NA	Water	8260C	
00-211283-4	MW-2	Total/NA	Water	8260C	
00-211283-5	MW-3	Total/NA	Water	8260C	
00-211283-6	MW-5	Total/NA	Water	8260C	
00-211283-7	MW-6	Total/NA	Water	8260C	
00-211283-8	MW-7	Total/NA	Water	8260C	
IB 400-557183/4	Method Blank	Total/NA	Water	8260C	
CS 400-557183/1002	Lab Control Sample	Total/NA	Water	8260C	
00-211283-6 MS	MW-5	Total/NA	Water	8260C	
00-211283-6 MSD	MW-5	Total/NA	Water	8260C	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211283-2	DUP-01	Total/NA	Water	8260C	
400-211283-9	MW-8	Total/NA	Water	8260C	
MB 400-557351/28	Method Blank	Total/NA	Water	8260C	
LCS 400-557351/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211320-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-211320-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

4 5 6

Job ID: 400-211283-1

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

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

Lab Sample ID: MB 400-557092/4 Matrix: Water

Analysis Batch: 557092

•	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/23/21 15:18	1
Toluene	<1.0		1.0	ug/L			11/23/21 15:18	1
Ethylbenzene	<1.0		1.0	ug/L			11/23/21 15:18	1
Xylenes, Total	<10		10	ug/L			11/23/21 15:18	1

	MB	МВ	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	95		72 - 119
Dibromofluoromethane	109		75 - 126
Toluene-d8 (Surr)	91		64 - 132

Lab Sample ID: LCS 400-557092/1002 Matrix: Water Analysis Batch: 557092

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	44.8		ug/L		90	70 - 130	
Toluene	50.0	45.1		ug/L		90	70 - 130	
Ethylbenzene	50.0	42.1		ug/L		84	70 - 130	
Xylenes, Total	100	87.0		ug/L		87	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		72 - 119
Dibromofluoromethane	109		75 - 126
Toluene-d8 (Surr)	101		64 - 132

Lab Sample ID: 400-211352-A-6 MS **Matrix: Water** Analysis Batch: 557092

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<1.0		50.0	40.2		ug/L		80	56 - 142	
Toluene	<1.0		50.0	38.7		ug/L		77	65 - 130	
Ethylbenzene	<1.0		50.0	35.3		ug/L		71	58 - 131	
Xylenes, Total	<10		100	73.0		ug/L		73	59 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	104		72 - 119
Dibromofluoromethane	107		75 - 126
Toluene-d8 (Surr)	100		64 - 132

Lab Sample ID: 400-211352-A-6 MSD **Matrix: Water** Analysis Batch: 557092

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Limits Added Result Qualifier Unit RPD Limit Analyte D %Rec 50.0 Benzene <1.0 39.0 ug/L 78 56 - 142 3 30 Toluene <1.0 50.0 37.1 ug/L 74 65 - 130 30 4 Ethylbenzene <1.0 50.0 33.3 ug/L 67 58 - 131 6 30

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Job ID: 400-211283-1

6

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

Prepared

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

11/23/21 15:18

11/23/21 15:18

11/23/21 15:18

Dil Fac

1

1

Spike

Added

Limits

72 - 119

75 - 126

64 - 132

100

MSD MSD

68.6

Result Qualifier

Unit

ug/L

D %Rec

С

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

Sample Sample

MSD MSD

Qualifier

<10

102

107

100

%Recovery

Result Qualifier

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Lab Sample ID: 400-211352-A-6 MSD

Matrix: Water

Analyte

Xylenes, Total

Surrogate

4-Bromofluorobenzene

Dibromofluoromethane

Toluene-d8 (Surr)

Analysis Batch: 557092

Job ID: 400-211283-1

Prep Type: Total/NA

RPD

6

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RPD

Limit

30

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

Client Sample ID: Matrix Spike Duplicate

69

%Rec.

Limits

59 - 130

Lab Sample ID: MB 400-557183/4 **Matrix: Water** Analysis Batch: 557183

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/24/21 12:56	1
Toluene	<1.0		1.0	ug/L			11/24/21 12:56	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/21 12:56	1
Xylenes, Total	<10		10	ug/L			11/24/21 12:56	1

	MB MB					
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	87	72 - 119		11/24/21 12:56	1	
Dibromofluoromethane	102	75 - 126		11/24/21 12:56	1	
Toluene-d8 (Surr)	106	64 - 132		11/24/21 12:56	1	

Lab Sample ID: LCS 400-557183/1002 **Matrix: Water** Analysis Batch: 557183

Prep Type: Total/NA ~ -

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	45.5		ug/L		91	70 - 130	
Toluene	50.0	50.3		ug/L		101	70 - 130	
Ethylbenzene	50.0	56.0		ug/L		112	70 - 130	
Xylenes, Total	100	111		ug/L		111	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	90		72 - 119
Dibromofluoromethane	106		75 - 126
Toluene-d8 (Surr)	101		64 - 132

Lab Sample ID: 400-211283-6 MS **Matrix: Water** Analysis Batch: 557183

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<1.0		50.0	51.0		ug/L		102	56 - 142	
Toluene	<1.0		50.0	53.6		ug/L		107	65 - 130	
Ethylbenzene	<1.0		50.0	47.9		ug/L		96	58 - 131	
Xylenes, Total	<10		100	95.8		ug/L		96	59 - 130	

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Client Sample ID: MW-5

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

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QC Sample Results

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

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

Lab Sample ID: 400-211283-6 MS **Matrix: Water** Analysis Batch: 557183

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	92		72 - 119
Dibromofluoromethane	104		75 - 126
Toluene-d8 (Surr)	108		64 - 132

Lab Sample ID: 400-211283-6 MSD **Matrix: Water**

Analysis Batch: 557183 MSD MSD RPD Sample Sample Spike %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <1.0 50.0 43.4 ug/L 56 - 142 30 87 16 Toluene <1.0 50.0 47.5 ug/L 95 65 - 130 30 12 Ethylbenzene <1.0 50.0 47.2 ug/L 94 58 - 131 2 30 Xylenes, Total <10 100 95.1 ug/L 95 59 - 130 1 30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	93		72 - 119
Dibromofluoromethane	103		75 - 126
Toluene-d8 (Surr)	105		64 - 132

Lab Sample ID: MB 400-557351/28 **Matrix: Water** Analysis Batch: 557351

	MB I	МВ						
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/26/21 11:59	1
Toluene	<1.0		1.0	ug/L			11/26/21 11:59	1
Ethylbenzene	<1.0		1.0	ug/L			11/26/21 11:59	1
Xylenes, Total	<10		10	ug/L			11/26/21 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		72 - 119		11/26/21 11:59	1
Dibromofluoromethane	103		75 - 126		11/26/21 11:59	1
Toluene-d8 (Surr)	92		64 - 132		11/26/21 11:59	1

MR MR

Lab Sample ID: LCS 400-557351/1002 **Matrix: Water** Analysis Batch: 557351

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier	Unit	D %Ree	c Limits	
Benzene	50.0	44.4		ug/L		9 70 - 130	
Toluene	50.0	40.6		ug/L	8	1 70 - 130	
Ethylbenzene	50.0	42.8		ug/L	86	5 70 - 130	
Xylenes, Total	100	85.2		ug/L	8	5 70-130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	94		72 - 119
Dibromofluoromethane	103		75 - 126

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Job ID: 400-211283-1

Client Sample ID: MW-5

Client Sample ID: MW-5

Prep Type: Total/NA

Prep Type: Total/NA

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Job ID: 400-211283-1

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Met

Lab Sample ID: LCS 400-5 Matrix: Water Analysis Batch: 557351	557351/1002					Clier	nt Sa	mple ID	: Lab Cor Prep Ty		
Analysis Batch: 557351											
	LCS										
Surrogate	%Recovery	Qualifier	Limits								
Toluene-d8 (Surr)	92		64 - 132								
Lab Sample ID: 400-21132	20-A-3 MS						С	lient Sa	mple ID:	Matrix \$	Spike
Matrix: Water									Prep Ty		
Analysis Batch: 557351											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<1.0		50.0	42.6		ug/L		84	56 - 142		
Toluene	<1.0		50.0	33.0		ug/L		66	65 - 130		
Ethylbenzene	<1.0		50.0	29.0		ug/L		58	58 - 131		
Xylenes, Total	<10	F1	100	57.8	F1	ug/L		58	59 - 130		
	MS	MS									
Surrogate	%Recovery		Limits								
4-Bromofluorobenzene	89		72 - 119								
Dibromofluoromethane	103		75 - 126								
Dibromofluoromethane Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water	91		75 - 126 64 - 132			Client	Samp	le ID: N	Matrix Spil Prep Ty		
Toluene-d8 (Surr) Lab Sample ID: 400-21132	91 20-A-3 MSD	Sample	64 - 132	MSD	MSD	Client	Samp	le ID: N	Prep Ty		al/NA
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351	91 20-A-3 MSD Sample	Sample Qualifier	64 - 132 Spike		MSD Qualifier	Client S					al/NA RPD
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water	91 20-A-3 MSD Sample	Sample Qualifier	64 - 132		MSD Qualifier	Unit	Samp		Prep Ty %Rec.	pe: Tot	al/NA
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351 Analyte	91 20-A-3 MSD Sample Result		64 - 132 Spike Added	Result				%Rec	Prep Ty %Rec. Limits	pe: Tot	al/NA RPD Limit
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351 Analyte Benzene	91 20-A-3 MSD Sample Result <1.0		64 - 132 Spike Added 50.0	Result 46.4		Unit ug/L		% Rec 92	Prep Ty %Rec. Limits 56 - 142	Pe: Tot	al/NA RPD Limit 30
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351 Analyte Benzene Toluene	91 20-A-3 MSD Sample Result <1.0 <1.0	Qualifier	64 - 132 Spike Added 50.0 50.0	Result 46.4 36.3		Unit ug/L ug/L		%Rec 92 73	Prep Ty %Rec. Limits 56 - 142 65 - 130	RPD 8 10	Al/NA RPD Limit 30 30
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351 Analyte Benzene Toluene Ethylbenzene	91 20-A-3 MSD Sample Result <1.0 <1.0 <1.0 <1.0	Qualifier F1	64 - 132 Spike Added 50.0 50.0 50.0	Result 46.4 36.3 31.6		Unit ug/L ug/L ug/L		%Rec 92 73 63	Prep Ty %Rec. Limits 56 - 142 65 - 130 58 - 131	RPD 8 10 9	RPD Limit 30 30 30
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	91 20-A-3 MSD Sample Result <1.0 <1.0 <1.0 <10 MSD	Qualifier F1 MSD	64 - 132 Spike Added 50.0 50.0 50.0 100	Result 46.4 36.3 31.6		Unit ug/L ug/L ug/L		%Rec 92 73 63	Prep Ty %Rec. Limits 56 - 142 65 - 130 58 - 131	RPD 8 10 9	RPD Limit 30 30 30
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351 Analyte Benzene Toluene Ethylbenzene	91 20-A-3 MSD Sample Result <1.0 <1.0 <1.0 <1.0	Qualifier F1 MSD	64 - 132 Spike Added 50.0 50.0 50.0	Result 46.4 36.3 31.6		Unit ug/L ug/L ug/L		%Rec 92 73 63	Prep Ty %Rec. Limits 56 - 142 65 - 130 58 - 131	RPD 8 10 9	RPD Limit 30 30 30
Toluene-d8 (Surr) Lab Sample ID: 400-21132 Matrix: Water Analysis Batch: 557351 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surrogate	91 20-A-3 MSD Sample Result <1.0 <1.0 <1.0 <10 <i>MSD</i> %Recovery	Qualifier F1 MSD	64 - 132 Spike Added 50.0 50.0 100 Limits	Result 46.4 36.3 31.6		Unit ug/L ug/L ug/L		%Rec 92 73 63	Prep Ty %Rec. Limits 56 - 142 65 - 130 58 - 131	RPD 8 10 9	RPD Limit 30 30 30

Lab Chronicle

Job ID: 400-211283-1

Analyst

Analyst

Analyst

Analyst

BPO

Lab Sample ID: 400-211283-6

BPO

WPD

BEP

Matrix: Water

Lab

Matrix: Water

Lab

Matrix: Water

Lab TAL PEN

Matrix: Water

Lab

Matrix: Water

Matrix: Water

TAL PEN

TAL PEN

TAL PEN

10

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E Lab Sample ID: 400-211283-1 Client Sample ID: TB-01 Date Collected: 11/12/21 11:00 Date Received: 11/16/21 09:10 Batch Batch Dil Initial Batch Final Prepared Method Factor Number or Analyzed Prep Type Type Run Amount Amount Total/NA Analysis 8260C 557092 11/23/21 17:42 5 mL 5 mL 1 Instrument ID: Einstein Client Sample ID: DUP-01 Lab Sample ID: 400-211283-2 Date Collected: 11/12/21 13:00 Date Received: 11/16/21 09:10 Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Amount Amount Number or Analyzed Run Factor Total/NA Analysis 8260C 5 mL 5 mL 557351 11/26/21 15:19 1 Instrument ID: CH LARS **Client Sample ID: MW-1** Lab Sample ID: 400-211283-3 Date Collected: 11/12/21 12:11 Date Received: 11/16/21 09:10 Batch Batch Dil Initial Final Batch Prepared Method or Analyzed Prep Type Туре Run Factor Amount Amount Number Total/NA Analysis 8260C 5 mL 5 mL 557183 11/24/21 17:43 Instrument ID: CH TAN **Client Sample ID: MW-2** Lab Sample ID: 400-211283-4 Date Collected: 11/12/21 12:16 Date Received: 11/16/21 09:10 Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Total/NA 557183 11/24/21 22:29 Analysis 8260C 20 5 mL 5 mL Instrument ID: CH_TAN **Client Sample ID: MW-3** Lab Sample ID: 400-211283-5 Date Collected: 11/12/21 12:22 Date Received: 11/16/21 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557183	11/24/21 18:09	BPO	TAL PEN
	Instrumer	t ID: CH_TAN								

Client Sample ID: MW-5 Date Collected: 11/12/21 12:26 Date Received: 11/16/21 09:10

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	557183	11/24/21 13:22	BPO	TAL PEN
	Instrumer	t ID: CH_TAN								

Client: Stantec Consulting Services Inc

5 6 7

10

Lab Chronicle

Job ID: 400-211283-1

Lab Sample ID: 400-211283-7 Matrix: Water

Date Collected: 11/12/21 12:30 Date Received: 11/16/21 09:10

Project/Site: GCU Com A #142E Client Sample ID: MW-6

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method 8260C t ID: CH_TAN	Run	Dil Factor 1	Initial Amount 5 mL	Final Amount 5 mL	Batch Number 557183	Prepared or Analyzed 11/24/21 18:35	Analyst BPO	Lab TAL PEN
Client Sam Date Collecte Date Receive	d: 11/12/21 1	2:34					La	b Sample I		211283-8 trix: Wate
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	8260C at ID: CH_TAN		1	5 mL	5 mL	557183	11/24/21 19:01	BPO	TAL PEN
Client Sam Date Collecte Date Receive	d: 11/12/21 1	2:00					La	b Sample I		211283-9 trix: Wate
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C at ID: CH LARS		1	5 mL	5 mL	557351	11/26/21 15:44		TAL PEN

Laboratory References:

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

Eurofins TestAmerica, Pensacola

Accreditation/Certification Summary

Identification Number

40150

L2471

AZ0710

88-0689

E81010

200041

E-10253

KY98030

30976

LA017

M-FL094

233

9912

FL006

314

9810

96026

TN02907

058448

460166

C915

136

T104704286

P330-21-00056

68-00467

LAO00307

367

53

E81010(FL)

2510

Expiration Date

06-30-22

02-23-23

01-12-22

09-01-22

06-30-22

06-30-22

06-30-22

10-09-22

08-01-22

11-30-21

06-30-22

12-31-21

06-30-22

12-31-21

09-30-22

06-30-22

06-30-22

06-30-22

12-31-21

08-31-22

01-31-22

12-30-21

06-30-22 06-30-22

09-30-22

07-31-22

05-17-24

06-14-22

05-15-22

12-31-21

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Authority

Alabama

ANAB

Arizona

California

Florida

Georgia

Illinois

lowa

Kansas Kentucky (UST)

Louisiana

Maryland

Michigan

New Jersey

Oklahoma

Pennsylvania

Rhode Island

Tennessee

Texas

USDA

Virginia

Washington

South Carolina

US Fish & Wildlife

West Virginia DEP

Kentucky (WW)

Louisiana (DW)

Massachusetts

North Carolina (WW/SW)

Arkansas DEQ

Laboratory: Eurofins TestAmerica, Pensacola

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

Program

ISO/IEC 17025

State

NELAP

NELAP

State

State

US Federal Programs

US Federal Programs

NELAP

NELAP

NELAP

NELAP

NELAP

NELAP

	5
	8
	9
1	1
-	2

Eurofins TestAmerica,	Pensacola
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Method Summary

Client: Stantec Consulting Services Inc Project/Site: GCU Com A #142E

Job ID: 400-211283-1

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

ca, Pensacola		
S TestAmerica, F	nore Drive	EI 37614
Eurofins	3355 McLemore Drive	Pensacola

Chain of Custody Record

🐝 eurofins 💼

Received by OCD: 3/30/2022 12:17:07 PM

Client Information Client Contact:				
	210	Edwards, Marty P		COC No:
Steve Varsa	040 00	E-Mail:	State of Origin:	400-105/98-37673.1 Pane:
company:	10-00-00L-01L	Marty.Edwards@Eurofinset.com	0	Page 1 of 1
Stantec Consulting Services Inc		Analysi	Analysis Requested	Job#:
11311 Aurora Avenue	Due Date Requested:			Preservation Codes:
city: Des Moines	TAT Requested (days):	413		
State, Zip: IA, 50322-7904	Compliance Project: A Yes A No			C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S
Phone: 303-291-2239(Tel)				
Email: steve.varsa@stantec.com	#O#			
Project Name: GCU Com A #142E.00	Project #: 40005479	a or N		B J - DI Water V - MCAA B K - EDTA W - PH 4-5 L - EDA 7 - orther (snacrist)
Site:	SSOW#:	8) QS		Other:
SAH-OS	Sample	Matrix Matrix Morwater, (MOD) B'	400-211283 COC	umber of
Sample Identification	á	Berfor		
	Preservation Code:			Pecial Instructions/Note:
78-01	0011 12/2/11	Water <u>-2</u>		7 Tou AI 1
DUP-CI	11/11/21 1300 C	Water - 3		A1 - 1a1
MV1	112171 1211 C	Water 2		
Z-MW	1111/21 12/1/11	Water		
MW-3	0 2221 12/2/11	Water		
MM - S	11/12/21 1226 (2)	Water - 2		
MW-6	11/12/12/1230 (2)	Water		
t-MW	11/12/21/1234 6	Water 2		
MW-E	11/12/21 1200 ()	Water ?		
COM				2
220			8	
Possible Hazard Identification		Sample Disposal (A fee ma	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	tained longer than 1 month)
i, III, IV, OI	UINIOMU	Return To Client Disc Special Instructions/QC Requirements:	iosal By Lab	Archive For Months
Empty Kit Relinquished by:	Date:	Time:	Method of Shinment	
Relinquished by: Levin N Clarify	Date/Time: 15/21 0/.00	Company Received by:	Date/Time:	Сотралу
Relinquished by:		Company Received by:	Date/Time:	Company
1 1	Date/Time:	Company Received by:	Date/Time:	Company Company
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) ⁵ C and Other Remarks	0	01.60

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13

Job Number: 400-211283-1

List Source: Eurofins TestAmerica, Pensacola

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Login Number: 211283 List Number: 1 Creator: Roberts, Alexis J

Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> <td></td>	N/A		
The cooler's custody seal, if present, is intact.	N/A		
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	0.7°C IR9	
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		2
Samples are received within Holding Time (excluding tests with immediate HTs)	True		1
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		

4



VIA ELECTRONIC SUBMITTAL

January 25, 2019

Ms. Vanessa Fields New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: 2018 Groundwater Sampling Activities, Site Conceptual Model and Request for Site Closure GCU Com A #142E Site NMOCD Case No. 3RP-189-0 Incident No. nAUTOfAB000219 METER CODE: 3906 T29N, R12W, Sec25, Unit G Latitude: 36.699300 Longitude: -108.046700

Stantec Consulting Services Inc.

11153 Aurora Avenue Des Moines, Iowa 50322 Phone: (515) 253-0830

Fax: (515) 253-9592

Dear Ms. Fields:

Stantec Consulting Services Inc. (Stantec), on behalf of El Paso CGP Company, LLC (EPCGP), presents this report of 2018 groundwater sampling activities and request for regulatory closure of the Gallegos Canyon Unit (GCU) Com A #142E site, New Mexico Oil Conservation Division (NMOCD) Case number 3RP-189-0 (Site). In support of the regulatory closure request, this report presents an overview of previously completed activities and a Site Conceptual Model (SCM) for the Site. Based on this information, EPCGP is requesting closure of the Site recognizing ongoing impacts from a separate release by the current operator. This separate release is hampering the achievement of Site closure criteria outlined in the Remediation Plan approved by the NMOCD on November 30, 1995.

2018 Groundwater Sampling Activities

Pursuant to the 1995 remediation plan, Stantec provided notification of upcoming field activities via email to NMOCD on May 9, 2018, and October 23, 2018. Copies of the notifications are provided in Attachment A. On May 17 and October 28, 2018, water levels were gauged at MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-8. With the exception of MW-2 on October 23, 2018, groundwater samples were collected from each well that did not contain free product, using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

Monitoring well MW-2 was found on October 28, 2018, to have been opened by others and the HydraSleeve partially removed; therefore, this well was not sampled. The old HydraSleeve device was removed and replaced prior to leaving the site, in preparation for groundwater sampling in 2019.



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). As requested by the NMOCD on November 13, 2017, BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260. As requested by the NMOCD on March 20, 2018, EPCGP began collecting blind field duplicates of groundwater samples, as clarified in a March 21, 2018 electronic mail message to NMOCD. The unused sample water was combined in a waste container and taken to Basin Disposal, Inc. for disposal. Waste disposal documentation is included as Attachment B.

A summary and discussion of the 2018 groundwater gauging data is presented in the Site Characterization section below. A summary and presentation of the 2018 groundwater analytical data is presented in the Groundwater Concentration and Trends section below.

Site History

The Site is located on fee land owned by 6 Road 5267 LLC. Currently, the Site property has an active gas production well and associated infrastructure owned and operated by BP America Production Company (BP) (American Petroleum Institute [API] well number 30-045-26125). Amoco Oil Company (now BP) spud the current production well on December 4, 1984. El Paso Natural Gas Company (EPNG) was approved to begin transporting natural gas from the production well on February 10, 1985. EPNG closed the dehydrator pit in April 1994. The pipeline assets were transferred to Enterprise Products Company (Enterprise) on April 4, 2002. Following an initial assessment, 20 cubic yards of soil were excavated by EPNG from the former pit. In October 1996, an additional 882 cubic yards were excavated to a depth of up to 15.5 feet below ground surface (bgs) and removed. Available documentation of the October 1996 soil excavation activities, not found in NMOCD files, is presented as Attachment C.

NMOCD Case number 3RP-189-0 was established for a release from this pit. EPCGP has since installed seven monitoring wells, one temporary well, and six piezometers, and advanced one soil boring to assess the nature and extent of hydrocarbons at the Site. Product recovery has also been conducted from Site monitoring wells. A summary of the activities completed at GCU Com A #142E are presented as Attachment D. A site plan depicting the location of the former EPNGC pit, existing monitoring wells, and other pertinent site features is included in Attachment E. A photographic log with photographs of historical and current Site features is presented as Attachment F.

On April 7, 2014, in response to EPCGP's request to BP for documentation of environmental conditions associated with releases by BP at the GCU Com A #142E site, BP provided EPCGP with a single figure, included here as Attachment G. Based on the figure, three areas around the site had been excavated, mostly outside the boundaries of the production location. The



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

map also shows the existence of 10 monitoring wells. EPCGP has been unable to obtain any further information regarding site conditions associated with BP's environmental releases from either BP or NMOCD. No NMOCD file was set up in the public access portal until very recently. The NMOCD established Case number 3RP-1055 for the BP release, but to date no information is contained in this file.

Site Characterization

As summarized in Attachment E, seven monitoring wells (MW-1 through MW-3, and MW-5 through MW-8), six piezometers (PZ-1 through PZ-6), one temporary monitoring well (TW-1), and one soil boring (MW-4) have been advanced at the Site. The data collected during advancement, and ongoing monitoring of the Site since 1996 have provided most of the information used to characterize the Site. Beyond the single figure provided to EPCGP on April 7, 2014, additional characterization information from BP is not available.

Site Topography

As noted in Attachment E, the majority of the Site slopes very gently to the south, with a surface elevation of approximately 5479 feet above sea level (ASL). Historically, a ditch was located along and inside the length of the eastern fence of the GCU 142E operations, as depicted in Attachment H. Elevated earthen berms are present around two BP tanks located to the north and northwest of the former EPNGC pit.

Local Geology and Hydrology

A summary of local geology and hydrology can be found as part of the BP's July 27, 2011 Closure Plan (API 30-045-26125), included under the production well's file in the NMOCD online document portal (not the environmental file 3RP-1055) included as Attachment I. Soils in the area are derived from weathered bedrock, transported mostly by eolian processes, and to a lesser extent, fluvial processes. Based on the site's position in the San Juan River valley, the site is situated on Quaternary floodplain and terrace deposits consisting of gravel, sand, silt, and clay totaling less than 100 feet thick, and underlain by bedrock. Depth to groundwater is less than 50 feet. From the location of the Site, there are no continuously flowing waterways within 300 feet, no other waterways, surface water bodies, sinkholes, or playas within 200 feet, and no wetlands within 500 feet.



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

Site Geology

The monitoring well, piezometer, and soil boring logs, advanced by EPCGP to depths of up to 25 feet bgs, have been included in previously-submitted documents to the NMOCD. For reference, these logs are included as Attachment J. Cross-sections prepared to depict the generalized geology noted in the EPCGP soil boring logs are shown on Attachment K.

As noted in Attachments J and K, fill materials were logged at the MW-1 location to a depth of 9 feet bgs. A dry, loose, low plasticity, gravelly silty sand, also potentially a fill material, was encountered at the monitoring well locations MW-2, and MW-4 through MW-8, to depth of up to 10 feet bgs. At the MW-3 location, a low plasticity clay was encountered in the upper 10 feet. Underlying the fill or gravelly silty sand, at least six to 10 feet of a stiff, high plastic clay is encountered, typically moist or wet. The clay is underlain by up to 10 feet of loose, wet, sandy clay containing gravel at the MW-3 and MW-6 locations. Underlying the sandy clay, loose, wet, gravelly sand or gravels were encountered to the termination depth. The gravel and sands are poorly graded, suggesting deposition by alluvial processes. At the MW-4 location, auger refusal was encountered at other locations.

Site Hydrogeology

For reference, temporary and permanent monitoring well logs completed by EPCGP are included in Attachment J. Gauging data collected from EPCGP monitoring wells, including data collected during the May 17 and October 28, 2018 gauging events, are presented in Attachment L. Historically, measured groundwater elevations in the monitoring wells have ranged from a high elevation of 5470.7 feet ASL in September of 2011, to a low elevation of 5462.6 feet ASL in May of 2011. Monitoring well MW-1 and MW-2 were both reported as "dry" on September 7, 2003, but it is believed water levels were instead not measured as water samples were collected from these wells on this date.

Groundwater elevation maps generated from well gauging data collected during the May 17 and October 27, 2018, gauging events are included as Attachment M. Historical groundwater elevation figures were included in previously submitted reports. Over the years, EPCGP reports submitted to NMOCD for this site have included 20 groundwater elevation figures, prepared using EPCGP wells or piezometers. A vast majority of the gauging events have documented groundwater flow direction to be to the southeast. Anomalous groundwater flow directions to the south or southwest appear to coincide to with groundwater elevations at their historic lows, or when insufficient monitoring points were present to confirm flow direction across the Site. The April 2011 BP figure included in Attachment G also depicts a groundwater flow direction to the southeast.



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

Although no aquifer testing has been conducted at the Site, the saturated sands and gravels encountered at depth at the Site are expected to have a relatively high hydraulic conductivity. Groundwater gradient, as calculated using the May 17, 2018 gauging data collected from MW-8 and MW-1, was 0.0025 feet/foot. In Stantec's experience, the relatively low groundwater gradient is also consistent with course-grained soils on gentle slopes with a high hydraulic conductivity.

Migration of Petroleum Constituents to the Saturated Zone

Evidence of petroleum constituents (i.e., logged petroleum odors, elevated photo-ionization detection [PID] readings, elevated soil concentrations) were not noted in the field-apparent vadose zone in any of the monitoring wells or the soil boring (Attachment J). Evidence of petroleum constituents was documented as shallow as 10 feet bgs (MW-2 and MW-7), and generally beginning at 13 feet bgs (MW-1, MW-4, MW-5 and MW-6). Likely due to poor sample recoveries, evidence of hydrocarbons were not noted until greater depths in the MW-3 and MW-8 logs. Based on field evidence during advancement as subsequent monitoring well gauging data, the first occurrence of hydrocarbon impacts at these locations are within or below the smear zone. In the MW-2 log, it was noted hydrocarbon staining was present along vertical parting structures (fractures) in the clay, suggesting vertical movement within the smear zone to underlying gravel and cobbles. Shallower evidence of hydrocarbons may have been removed during excavation activities and replaced with fill. It was noted no evidence of hydrocarbons were present in the 9 to 12-foot bgs interval during advancement of MW-1, installed in the former EPNGC pit. The lack of significant hydrocarbons at the Site.

Constituents of Concern

The constituents of concern for the Site as follows:

Constituent of Concern	M	edia
	Soil	Groundwater
Benzene	Х	Х
Toluene	N/A	Х
Ethylbenzene	N/A	Х
Xylenes	N/A	Х
Total benzene, toluene, ethylbenzene, and	Х	N/A
xylenes (BTEX)		
Total Petroleum Hydrocarbons (TPH)	Х	N/A
Chloride	Х	N/A
Free Product	N/A	Х



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

Soil Analytical Results

Six soil samples have been collected as part of Site characterization activities, as summarized in Attachment N. A figure depicting the location of the soil samples is also presented in Attachment N. Soil analytical laboratory reports were included in previously-submitted reports. Based on the logs generated during advancement of each monitoring well (Attachment J), the six soil samples collected were in the saturated zone. With the presence of free product at the Site and previous excavation activities, the soil analytical data is not particularly useful in identifying overlying source areas.

Free Product

An apparent nearby release(s) has occurred and product has migrated vertically to the saturated zone at a location not assessed by EPCGP. Once encountering the saturated zone, free product from the release(s) have migrated horizontally. Site monitoring well gauging activities have detected measurable free product in monitoring wells MW-2, MW-3, MW-8, and TW-1. As summarized in Attachment L, free product was first encountered in monitoring well MW-2 (0.42 feet thick) on June 2, 2009, a monitoring well up-gradient (sometimes side-gradient) to the former EPNGC pit and located immediately down-gradient of BP storage facilities. Measurable free product was subsequently discovered in wells TW-1 (0.90 feet thick, 5/25/2010), MW-3 (0.17 feet, 6/11/2017), and MW-8 (0.89 feet thick, 6/11/2017). Based on the groundwater flow direction observed over many measuring events at the site, these wells are upgradient of the former EPNG dehydrator pit. Intermittent product recovery was initiated in 2009 using absorbent socks, with less than an estimated 1 gallon of product recovered through 2013. No measurable free product has been detected in monitoring well MW-1.

A hydrograph depicting groundwater elevations in comparison with the presence and thickness of free product in monitoring wells MW-2, MW-3, and TW-1/MW-8 are presented in Attachment O. Free product was first observed 7 years into the gauging record of MW-2, and its occurrence does not coincide with unique or extreme groundwater elevations. Monitoring well MW-1 was installed on February 26, 1997, and measurable product has not been observed since it was installed. Monitoring well MW-2 was installed on December 12, 2001, and free product was first discovered on June 2, 2009. The first appearance of measurable free product in down-gradient TW-1 (later replaced by well MW-8) occurred on May 25, 2010. Measurable free product was first discovered in monitoring well MW-3 on June 11, 2017.

Groundwater Analytical Results and Trends

A summary of groundwater analytical results obtained from 37 separate groundwater sampling events at the Site is depicted on Attachment P. Figures showing the results from the May 17, and October 28, 2018 groundwater sampling events are presented in Attachment Q.



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

The laboratory analytical report for the 2018 groundwater sampling events are presented in Attachment R. Laboratory analytical reports for 2017 and earlier were presented in previously-submitted reports. As noted in Attachment P, the groundwater concentrations in MW-1 have been one or more orders of magnitude less than monitoring well MW-2, located in the up-gradient direction, when both wells have been sampled. This trend continued in 2018, where monitoring well concentrations were below the applicable New Mexico Water Quality Control Commission (NMWQCC) criteria in MW-1. Groundwater samples from MW-1 have met NMWQCC standards three times: once on March 22, 2004, and for both groundwater sampling events completed in 2018.

Groundwater hydrographs depicting historical groundwater elevation data and benzene concentrations (the most limiting analytical constituent) for the Site monitoring wells are presented in Attachment S. As noted in the MW-1 hydrograph, groundwater benzene concentrations in MW-1 generally declined and leveled-off through 2008, following closure of the EPNGC pit in 1994 and subsequent soil excavation in 1996. Groundwater benzene concentrations in MW-1 increased significantly shortly after the discovery of free product in up-gradient MW-2 in 2009. The impact causing the elevated groundwater concentrations and LNAPL in up-gradient well MW-2 likely contributed to continued elevated benzene concentrations in MW-1.

The behavior of the MW-1 hydrograph indicates a significant soil source was not present in the vicinity of MW-1 from prior to 2009. Beginning in 2009, following the appearance of free product in MW-2, the MW-1 hydrograph behavior switched to a more direct relationship between groundwater concentrations and elevation. This direct relationship between groundwater concentrations and groundwater elevations can be attributed to the clayey sands around MW-1 absorbing free product and/or highly-impacted groundwater that had migrated from an upgradient source, creating an ongoing local source.

The hydrograph for MW-2 depicts an initial decline but continued elevated groundwater concentrations at this location. Groundwater concentrations at MW-2 have always been high at this location upgradient of MW-2, as a result of historical or new releases in this area. It is expected groundwater concentrations will remain elevated with the continued presence of free product. The hydrographs for monitoring wells MW-3 and TW-1 (later replaced with monitoring well MW-8) also are elevated based on the presence or appearance of free product at these locations, with free product likely having migrated from one or more up-gradient sources.

The hydrographs for monitoring wells MW-5, MW-6 and MW-7 depict the generally low hydrocarbon concentrations, with benzene occasionally exceeding the applicable NMWQCC standard. The hydrographs for these monitoring wells generally exhibit inverse relationships with groundwater elevations, suggesting a significant hydrocarbon source is not present in smear-zone soils, but likely receive hydrocarbon-impacted water from upgradient



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

sources and/or areas where free product has migrated to. Any significant historical soil source immediately up-gradient of these wells may have been eliminated as part of the 1996 soil excavation.

Summary

Based on the available data collected at the Site, the following is offered regarding the GCU 142E site:

- Amoco (now BP) spud the GCU 143E well in December of 1984, and they continue to operate in the nearly 24 years since. BPs operations include at least three tanks, one of which has been closed, and at least three pits. EPNGC operated a natural gas distribution pipeline and a dehydrator pit for approximately nine years. EPNGC closed the pit in April 1994 and has no remaining operations.
- Following an initial assessment of the closed dehydrator pit, EPNG excavated and removed 20 cubic yards of soil. In October 1996, EPNG excavated an additional 882 cubic yards of soil from the former Pit area and eastward, to a depth of up to 15.5 feet bgs. The excavated soil was removed from the site for treatment and disposal. Soils encountered during advancement of other EPCGP monitoring wells and a soil boring indicate fill materials (as a loose, gravelly silty sand), may be present up to 10 feet bgs at other portions of the Site.
- The log of MW-1, advanced in the former EPNGC pit, documents the absence of hydrocarbon odors or staining in the upper 3 feet of stiff silty clay (below the base of the excavation), indicating this pit may not have been a significant source of hydrocarbons encountered across the Site.
- Groundwater monitoring at the Site was initiated on March 10, 1997, over twelve years after BP began operating at the Site.
- Measurable free product was first detected in EPCGP monitoring wells on June 2, 2009, in monitoring well MW-2. However, dissolved hydrocarbon concentration in this well were two orders of magnitude higher than concentrations at MW-1, the source well associated with the EPNG dehydrator pit. Monitoring well MW-2 is located near BP's above ground storage tank and a truck loading manifold 45 feet northwest and upgradient of the former EPCG dehydrator pit. EPCGP believes it is likely that the elevated concentrations, and later LNAPL, at well MW-2 have always been associated with BP's operation at the site, not the former EPNG dehydrator pit.
- Measurable free product was detected in temporary monitoring well TW-1, located south of MW-2 and near a former Amoco blow pit location, on May 25, 2010. Following their installation in August of 2014, measurable free product was subsequently detected in monitoring well MW-3, located on the western portion of



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Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

the site near former and active BP operations, and MW-8, which replaced TW-1. Measurable free product has not been detected in MW-1.

- Migration of hydrocarbons, both as free product and/or impacted groundwater, is most likely during periods of lower groundwater elevations, when the water table is in or near the top of the loose gravelly sand and gravels, the highly transmissive alluvial (likely fluvial) unit underlying the Site. During periods of higher groundwater elevations, free product would be trapped and absorbed into the overlying clayey sand. When impacted by free product, these formerly un-impacted clayey sands may behave as source areas for hydrocarbons detected in groundwater across the Site.
- Other than monitoring wells MW-1 (since 2009) and MW-2 (entire monitoring record), the groundwater hydrographs for the EPCGP monitoring wells do not indicate significant saturated soil sources at these locations, and the source of hydrocarbons in groundwater are coming from upgradient locations. Groundwater flow across the site is primarily to the southeast. The highest groundwater concentrations at the Site have consistently been from MW-2, with lower hydrocarbon concentrations in downgradient monitoring wells.
- Hydrocarbon concentrations in monitoring well MW-1 met the applicable NMWQCC standards for during the March 22, 2004, and May and October 2018 groundwater monitoring events.
- Hydrocarbon concentrations in MW-1 are generally lower when groundwater flow is more of an eastern direction, where existing BP infrastructure is not directly upgradient of the former EPNG pit.
- Monitoring wells MW-5 and MW-6, located east of the former EPNG pit, have not had substantially high concentrations of BTEX constituents in groundwater, as would be expected if MW-1 was a significant source of hydrocarbons at the Site.
- By April 2011, BP had installed at least 10 monitoring wells and apparently completed excavation activities around three former pits. Details and results of these activities completed by BP are largely unknown at this time because associated reports have been unavailable. Three additional monitoring wells, also apparently installed by BP, were found at the Site during the October 28, 2018 sampling event.

Request for No Further Action

A review of the data gathered by EPCGP since 1996 indicates the former EPNGC pit may not have been a significant source of hydrocarbon impacts at this site. Additionally, the weight of scientific evidence compiled by EPCGP since 1996 strongly suggests that the former El Paso dehydrator pit is not the cause of hydrocarbon impact remaining at the Site. Based on the information presented in this document, EPCGP respectfully requests the NMOCD grant site closure for NMOCD case number 3RP-189.



January 25, 2019 Ms. Vanessa Fields Page 10 of 10

Reference: 2018 Activities, Site Conceptual Model and Request for Site Closure

If you have any comments or questions concerning this correspondence, please contact me or Joseph Wiley with EPCGP at (713) 420-3475.

Sincerely,

Stantec Consulting Services Inc.

Stephen Varsa, P.G. Project Manager Phone: (515) 251-1020 steve.varsa@stantec.com

/rsm:srv:leh

cc: Joseph Wiley, EPCGP Cory Smith, NMOCD District 3 Jim Griswold, NMOCD Santa Fe Morris Young, 6 Road 5267 LLC

Attachments:

Attachment A - NMOCD Notifications Attachment B – Waste Disposal Documentation Attachment C - October 1996 Field Pit Remediation Closure Form Attachment D - Site History Table Attachment E – Site Plan Attachment F - Photographic Log Attachment G – April 2011 BP Figure Attachment H – Historical Map Attachment I – Local Hydro-Geo Summary Attachment J – EPCGP Soil Boring Logs Attachment K – Cross-Sections Attachment L - Groundwater Gauging Data Attachment M - 2018 Groundwater Elevation Figures Attachment N – Soil Analytical Data Attachment O – Product Hydrograph Attachment P - Groundwater Analytical Data Attachment Q - 2018 Groundwater Analytical Figures Attachment R - Analytical Lab Reports

Attachment S - Groundwater Hydrographs

ATTACHMENT A



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

Vanessa and Cory -

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

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

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

Thank you, Steve

Stephen Varsa, P.G.

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

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

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

Vanessa and Cory -

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

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

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

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

Thank you, Steve

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

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ATTACHMENT B



Page 95 of 250

Form C-138 Revised August 1, 2011

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

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address: El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002
 Originating Site(s): Fields A#7A, Fogelson 4-1, Gallegos Canyon Unit #124E, GCU Com A #142E, James F. Bell #1E, Knight #1, Lat L 40, and State Gas Com N #1.
 Location of Material (Street Address, City, State or ULSTR): Unit E, Sec. 34, T32N, R11W; Unit P, Sec. 4, T29N, R11W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit P, Sec. 10, T30N, R13W; Unit A, Sec. 5, T30N, R13W; Unit H, Sec. 13, T28N, R04W; Unit H, Sec. 16, T31N, R12W, respectively.
4. Source and Description of Waste: Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site.
Estimated Volume $\frac{1}{2}$ 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 L.L.C. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
X 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, Say and Gave Check, representative for El Paso CGP Company L.L.C. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Stantec Consulting Services
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005 Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285 Method of Treatment and/or Disposal:
🗌 Evaporation 🛛 Injection 🔲 Treating Plant 🔲 Landfarm 🔲 Landfill 🔲 Other
Waste Acceptance Status:
PRINT NAME: DOLATER LESON TITLE: ATTOMORIN DATE: 5/19/18 SIGNATURE: 475-637-89-26
Surface Waste Management Facility Authorized Agent



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2	o. Ster BY: Je		eld, NM 87413 334–3013	DEL. BILL DRIV COD	TKT#. TO: <u>F/</u> ER: <u>5</u> (Print Full I ES:	-001-0005 hent, Form C1	Reserve P	
NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	١	Field & 7A, Fogelson 4 Gallecoscany on entigat	1060	.70	A	00	70-	
2		Knichtl LatL40	lell IE	-70-	10		·	
3		Stafe Gas (OM N#)						
4							1.	
5								
I, generator an Agency's Jul	y 1988 regu	eby certify that according to the Resource Conservat latory determination that the above described waste i Denied ATTENDANT SIGNAT	is RCRA Exemp	ry Act (RCF	(A) and the U	e or author		the above ion

	y:	AL 11-1- 1 Pasa () Jac () Exempt Oilfield Waste		Hing Produced Wat	NMOCI Oil Field INVO DEL. BILL DRIV CODI er Drilli	TKT#. TO: ER: (Print Full ES: ing/Completi	I -001-0005 nent, Form C1 Name)		
NO.	TRUCK	LOCATIO		VOLUME	COST	H2S	COST	TOTAL	TIME
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3		Gellem	AHINZE						
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5		FUNESFR	-11#1E						
represent have been of the rep	anve samp n found to presentative	Denied Denied conform to the specific req samples are attached to de	ATTENDANT SIGNATU		<u></u>	rtion 15 of	19.15.36 M ments of S	JMAC. The rea	INTING OB18018
19.15.36		stantec Consulting Servic	es						
Name Addres Metho	and Facility ss of Facilit d of Treatn	face Waste Management / Permit #: Basin Disposal, y: 906 S. Main Avenue, A hent and/or Disposal: /aporation Injection Status:	Inc., Permit # NM1-00 ztec, NM 87410-2285	Landfarm			Other intained A	s Permanent Re TE:	ecord)

Energy Minerals and Natural Resources Revised August 1, 2011 S. First St., Artesia, NM 88210 strict III **Oil Conservation Division** 000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. documentation available for Division inspection. District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE** Generator Name and Address: 1. El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002 Originating Site(s): 2. Fogelson 4-1, Gallegos Canyon Unit #124E, GCU Com A #142E, Sandoval GC A#1A, James F. Bell #1E, Knight #1, Lat L 40, and State Gas Com N #1. Location of Material (Street Address, City, State or ULSTR): 3. Unit P, Sec. 4, T29N, R11W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit H, Sec. 13, T28N, R04W; Unit P, Sec. 10, T30N, R13W; Unit A, Sec. 5, T30N, R13W; Unit H, Sec. 13, T28N, R04W; Unit H, Sec. 16, T31N, R12W, respectively. Source and Description of Waste: 4. Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site. Wastewater generated from aquifer testing of existing monitoring wells at the State Gas Com N#1 site is also being removed from the subject site. 1 yd³ (bbls) Known Volume (to be entered by the operator at the end of the haul) vd³/bbls Estimated Volume GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 5. , representative or authorized agent for El Paso CGP Company L.L.C. Joseph Wiley I.D sahou do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) X RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-Operator Use Only. Waste Acceptance Frequency D Monthly D Weekly 🛛 Per Load exempt waste. 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, Servan yever representative for El Paso CGP Company L.L.C. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. **Transporter: Stantec Consulting Services** 5. OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005 Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285 Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record) ternandor TITLE DATE: PRINT NAME: SIGNATURE: TELEPHONE NO.

State of New Mexico

Surface Waste Management Facility Authorized Agent

French Dr., Hobbs, NM 88240

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*Surface Waste Management Facility Operator and Generator shall maintain and make this

Form C-138

ATTACHMENT C



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FIELD PIT REMEDIATION/CLOSURE FORM/PHASE III 8110/22/96 Meter: 03906 Location: Gallegos Canyon Unit Com A #142E GENERAL Coordinates: Letter: 6 Section 25 Township: 29 Range: 12 Latitude _____ Longitude _____ Or Date Started : 10-11-96 Area: 02 Run: 33 **OBSERVATIONS** Sample Number(s): <u>MK536 mK537</u> Final PID Reading _______ PID Reading Depth _____ Feet Yes No Groundwater Encountered \square (1) \square (2) Approximate Depth $________$ Feet FIELD Final Dimensions: Length <u>62</u> Width <u>30</u> Depth <u>15'6</u> Sionalg. Remediation Method : [1] Approx. Cubic Yards <u>882</u> Excavation □(2) Onsite Bioremediation \Box (3) Backfill Pit Without Excavation CLOSURE Overburden Cubic Yards __ Soil Disposition: 1) (1) (3) Tierra Envirotech ∦ Name: Other Facility 🗌 (2) Pit Closure Date: ____1/16/90 Pit Closed By: Philip En.U. REMARKS Remarks : Phase TTT The over Burden In this was 177 PPm Finial Reading ON PId reading ON South -wall 3604 East-wall 987 west-wall 54 PPM North - well 963 PPm Botton 1073 PPM Saturo Wess to tal Signature of Specialist: Morgan Killion (SP3195) 05/01/95 Released to Imaging: 4/30/2024 2:28:37 PM -2-



ATTACHMENT D



	Source (Regulatory		
Date	File #)	Event/Action	Description /Comments
12/4/1984	API# 30-045-26125	Amoco Production Company (Amoco) Gallegos Canyon Unit (GCU) Com A #142E (Site) well spudded	
2/10/1985	30-045-26125	El Paso Natural Gas Company (EPNGC) approved to transport gas from GCU Com A 142E	Permian Corporation approved as transporter of condensate; Meridian Oil Company approved as condensate transporter on April 3, 1989.
4/1/1994	ACI# 3RP-179-0	El Paso Field Services (EPFS) - pit closure and excavation	20 cubic yards of soil removed.
10/1/1996	3RP-179-0	EPFS Soil Excavation	An additional 882 cubic yards of soil was excavated and removed. Excavation depth was to at least 9 feet bgs.
2/26/1997	3RP-179-0	EPFS - MW-1 well installation	No soil samples retained during advancement of BH-2 (completed as MW-1). Well gauged and sampled on 3/10/1997. MW-1 exceeds NMWQCC standards for benzene, toluene, and total xylenes. Quarterly sampling begins in August 1997.
9/25-29/1997	3RP-179-0	EPFS well temp installation and groundwater sampling	PZ-1 through PZ-6 installed and groundwater sampled for BTEX. Results from PZ-1 and PZ-6 indicate there is an up-gradient source.
2/27/1998	3RP-179-0	EPFS 1997 Annual Report	Quarterly groundwater sampling for BTEX completed from MW-1 in 1997. Recommends NFA until operator commences remediation of their production pits.
7/8/1998	3RP-179-0	New Mexico Oil Conservation Division (NMOCD) Notification	NMOCD approves annual sampling. NMOCD sends notice to Amoco to investigate and remediate groundwater on July 9, 1998.
3/31/1999	3RP-179-0	EPFS 1998 Annual Report	1998 quarterly groundwater sampling results from MW-1 through second quarter 1998 presented. Annual sampling at the site is proposed and EPFS will contact operator and provide pertinent information on EPFS activities.
3/24/2000	3RP-179-0	EPFS 1999 Annual Report	1999 annual sampling results from MW-1 presented. Annual sampling at the site proposed and continue to provide data to the operator. EPFS provided 1997 data to the operator.

2/26/2001	3RP-179-0	EPFS 2000 Annual Report	2000 annual sampling results from MW-1 presented. Continue annual sampling at the site proposed until BTEX concentrations have decreased, and continue to provide data to the operator.
7/18/2001	3RP-179-0	NMOCD Notification to EPFS	NMOCD acknowledges potential contamination related to operator activities. OCD requests EPFS to work with operator.
12/13/2001	3RP-179-0	Monitoring well MW-2 installed and sampled	Upgradient of MW-1.
12/31/2001	30-045-26125	Well operator changed to BP America Production Company	EPCG transferred the pipleine assets to Enterprise Products Company on April 4, 2002.
2/13/2002	30-045-26125	Amoco fracs well to comingle with second pool	Giant Refining Company approved as oil transporter on August 1, 2002.
2/28/2002	3RP-179-0	EPFS 2001 Annual Report	2001 annual sampling results from MW-1, and results from installation and sampling of MW-2 presented. Groundwater BTEX concentrations over two orders of magnitude above 2001 MW- 1 concentrations. Proposed to continue sampling MW-1 annually.
2/28/2003	N/A (missing from 3RP-179-0)	EPFS 2002 Annual Report	2002 annual sampling results from MW-1 presented. Semi-annual annual sampling of MW-1, and annual sampling of MW-2 proposed.
2/26/2004	3RP-179-0	EPFS 2003 Annual Report	2003 annual sampling results from MW-1 and MW-2 presented. With MW-1 concentrations below NMWQCC standards, quarterly sampling of MW-1, and annual sampling of MW-2, are proposed.
2/1/2005	N/A (missing from 3RP-179-0)	EPFS 2004 Annual Report	2004 quarterly sampling results from MW-1 and semi-annual sampling results from MW-2 presented.
3/1/2006	N/A (missing from 3RP-179-0)	MWH 2005 Annual Report (for El Paso Tennessee Pipeline Company [EPTPC])	2005 semi-annual sampling results from MW-1 and annual sampling results from MW-2 presented.
2/12/2007	N/A (missing from 3RP-179-0)	MWH 2006 Annual Report (for EPTPC)	2006 annual sampling results from MW-1 and MW-2 are presented. Piezometer TW-1 installed on January 6, 2006 to determine groundwater flow direction in subsequent monitoring events.
4/2/2008	3RP-179-0	MWH 2007 Annual Report (for EPTPC)	2007 annual sampling results from MW-1 and MW-2 presented, and gauging data from TW-1. Continued annual sampling of MW-1 and MW-2 recommended.

2/28/2009	3RP-179-0	MWH 2008 Annual Report (for EPTPC)	2008 annual sampling results from MW-1 and MW-2 presented, and guaging data from TW- 1. Continued annual sampling of MW-1 and MW-2 recommended, plus initiate annual sampling of TW-1.
4/1/2010	3RP-179-0	MWH 2009 Annual Report (for EPTPC)	2009 semi-annual sampling results from MW-1 and MW-2 and annual sampling of TW-1 presented. Measurable product (up to 0.42 feet in MW-2) first detected at site, and product recovery initiated. Continue annual sampling and monitoring of MW-1, MW-2, and TW-1 recommended.
3/2/2011	3RP-179-0	MWH 2010 Annual Report (for EPTPC)	2010 annual sampling from MW-1, MW-2, and TW-1, and quarterly gauging and product recovery from MW-2 and TW-1 presented. Product also detected in MW-1, and recovery initiated. Measurable product (up to 0.50 feet in MW-2 and up to 0.90 feet in TW-1) present. Continue annual sampling and quarterly product recovery is recommended. Its noted historically there may have been issues with the site product pit.
7/28/2011	30-045-26125	BP closure of 95 barrel below ground Tank A	Form C-144. No release was reported based on soil sample BTEX and TPH results, collected at a depth of 5 feet bgs.
8/20/2012	3RP-179-0	MWH 2011 Annual Report (for El Paso CGP Company [EPCGP])	2011 annual sampling and quarterly product recovery results from MW-1, MW-2, and TW-1 presented. Continued annual sampling and quarterly product recovery recommended, in additional to evaluation of up-gradient sources.
8/22/2013	3RP-179-0	MWH 2013 Monitoring well Installation Work Plan (for EPCGP)	Outlines procedures to install monitoring wells MW-3 through MW-5 to better delineate hydrocarbons in groundwater, and installing a replacement well for TW-1. The work plan was not implemented.
3/4/2014	3RP-179-0	MWH 2014 Monitoring Well Installation Work Plan (for EPCGP)	Outlines procedures to install monitoring wells MW-3 through MW-8 to better delineate hydrocarbons in groundwater, assess a potential upgradient source, and install a replacement well for TW-1. No written response to the work plan from NMOCD was received.
4/3/2014	3RP-179-0	MWH 2013 Annual Report (for EPCGP)	Documents a re-survey of the site and three quarterly gauging and sampling event, in which MW-1 and MW-2 were sampled. Product recovery activities ceased. Implementation of the March 4, 2014 well installation work plan, and semi-annual sampling, is recommended.

4/7/2014	N/A (e-mail)	BP provides site figure to EPCGP	Electronic mail message from BP to EPCGP. The June 2011 figure prepared by Blagg Engineering depicts BP well locations and soil excavation areas. Correspondence indicates a NMOCD case number was not setup for the historical BP release.
8/23-24/14	3RP-179-0	Monitoring wells MW-3, MW- 5 through MW-8 installed.	MW-4 advanced as soil boring adjacent to BP well MW-8, temp well TW-1 plugged and abandoned, six soil samples collected for laboratory analysis.
2/3/2015	3RP-179-0	MWH 2014 Annual Report (for EPCGP)	Results from well installation, soil sampling, and semi-annual sampling presented. Product (0.11 feet) present in MW-2. Continued semiannual sampling recommended as EPCGP awaits additional action from BP.
2/12/2016	3RP-179-0	MWH 2015 Annual Report (for EPCGP)	Results from semi-annual sampling presented. Continued semiannual sampling recommended as EPCGP awaits additional action from BP.
3/28/2017	3RP-179-0	Stantec 2016 Annual Report (for EPCGP)	Results from semi-annual sampling presented. Product (0.30 feet) present in MW-2. Continued semiannual sampling recommended as EPCGP awaits additional action from BP.
6/2/2017	3RP-179-0	NMOCD Comment Letter to EPCGP	Comments to 2016 Annual Report, and request to complete additional delineation around MW- 2 and MW-7, and complete product recovery activities.
7/19/2017	3RP-179-0	EPCGP Response Letter to NMOCD	EPCGP requests NMOCD obtain additional information from BP on the nature and extent of their release before determining what, if any, additional activities are required of EPCGP.
9/18/2017	3RP-179-0	Stantec Groundwater Monitoring Work Plan (for EPCGP)	As requested by NMOCD during an August 15, 1997 meeting with EPCGP, work plan requests semi-annual sampling until additional information is obtained about the BP release to determine what, if any, additional information is required of EPCGP.
11/14/2017	3RP-179-0	NMOCD Notification to EPCGP	Approval of 9/18/2017 work plan. NMOCD established ACI# 3RP-1055 to place monitoring data for the historical BP release at the Site. As of January 24, 2019, no information was found in the 3RP-1055 file.
3/29/2018	3RP-179-0	Stantec 2017 Annual Report (for EPCGP)	Semi-annual groundwater sampling results presented. Continued semi-annual sampling recommended. Additoinal activities on hold until additional information regarding BP release is provided.

5/14/2018	30-045-26125	BP work plan to conduct groundwater delineation activities	BP proposes to advance 2 soil borings, to be completed as monitoring wells, north and northwest of the former EPNGC pit.
1/25/2019	3RP-179-0	Stantec 2018 Annual Report and Case Closure Request.	2018 semi-annual groundwater sampling results presented, in addition to detailed site conceptual model and request for case closure. Installation of three new wells by others noted on 10/28/2018.

ATTACHMENT E




LEGEND:

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—G— —	UNDER	GROUN	D GAS	LINE		
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NOTES: UTILITY LOC	ATIONS A		ROXIMAT	E.		
MW-4 WAS A					NSTRU	CTED)
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BP PROPOS FROM 4/5/20 BLAGG ENG	18 GROU	NDWATE				
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		INC VI SIUN	DATE 12/11/2018	SLG	JRAWN BY SLG	SRV
TITLE:						
		SITE	PLAN			

PROJECT:

GALLEGOS CANYON UNIT COM A #142E SAN JUAN COUNTY, NEW MEXICO

	Figure No.:
Stantec	

ATTACHMENT F



Client:	El Paso CGP Company	Project:	193710238
Site Name:	GCU Com A #142E	Site Location:	San Juan River Basin, New Mexico
Photograph ID: 1			
Photo Location: GCU Com A #142	E		
Direction: Southwest			
Survey Date: 4/4/1994			
Comments: Former EPNG Del Pit	hydrator		
Photograph ID: 2			
Photo Location: GCU Com A #142	E		
Direction: South			
Survey Date: 4/4/1994		1	
Comments: View of site from t including existing and overhead pipe	BP tanks		

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Client:	El Paso CGP Company	Project:	193710238
Site Name:	GCU Com A #142E	Site Location:	San Juan River Basin, New Mexico
Photograph ID: 3			
Photo Location: GCU Com A #142	E		
Direction: Southwest	-		
Survey Date: 6/2/2009			
Comments: MW-1 (center), for above-ground tank removed by 2011) MW-2 (far right)	k (right -		
Photograph ID: 4		1000	621
Photo Location: GCU Com A #142	E	The -	the man and
Direction: Southeast		Page 1	
Survey Date: 4/3/2014			
Comments: Free product in HydraSleeve retrie MW-1	eved from		

.

Client:	El Paso CGP Company	Project:	193710238
Site Name:	GCU Com A #142E	Site Location:	San Juan River Basin, New Mexico
Photograph ID: 5			11 22
Photo Location: GCU Com A #142E			
Direction: Southwest		Alter an	
Survey Date: 8/23/2014		E CHI	
Comments: EPCGP monitoring w installation activities (MW-3)	vell		
Photograph ID: 6		12	
Photo Location: GCU Com A #142E	÷.	TA A	
Direction: Northwest	4		
Survey Date: 6/11/2017			Enter States of the second second
Comments: Condensate tank with nearby fill line, and M (foreground)			

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Client:	El Paso	CGP Company	Project:	193710238
Site Name:	GCU Co	m A #142E	Site Location:	San Juan River Basin, New Mexico
Photograph ID: 7	7			
Photo Location: GCU Com A #142	2E			
Direction: Northeast				and the second
Survey Date: 6/11/2017		BARA DECIM		
Comments: Separator and wa tank, with existing MW-9 well				
Photograph ID: 8	3	and the second secon		
Photo Location: GCU Com A #142			Chan with the	
Direction: Southeast				
Survey Date: 6/11/2017				
	MW-8			

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Client:	El Paso CGP Company	Project:	193710238
Site Name:	GCU Com A #142E	Site Location:	San Juan River Basin, New Mexico
Photograph ID: 9			
Photo Location: GCU Com A #142E			MA WAR
Direction: North			
Survey Date: 6/11/2017		Constant on	
Comments: BP MW-7 and site pro looking north	operty		
Photograph ID: 10	100		
Photo Location: GCU Com A #142E	4		
Direction: North			and the second sec
Survey Date: 10/31/2018	AMIT		
Comments: MW-2 and new BP w between condensate (left) and separator (r	tank		

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Client:	El Paso CGP Company	Project:	193710238
Site Name:	GCU Com A #142E	Site Location:	San Juan River Basin, New Mexico
Photograph ID: 1	1		and the second se
Photo Location: GCU Com A #142	2E	Mar.	
Direction: South			
Survey Date: 10/29/2018			Service Statement
Comments: BP MW-8 (foregro MW-1 (center) loo south			
Photograph ID: 1	2		
Photo Location: GCU Com A #142	e 📄		
Direction: North			
Survey Date: 10/29/2018			
Comments: Eastern fence line MW-6 (foreground MW-5 (backgroun	l) and		

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ATTACHMENT G





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ATTACHMENT H





ATTACHMENT I



District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, 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 Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
	Closed-Loop System, Below-Grade	
Proposed Alt	ernative Method Permit or Closure I	Plan Application
Close Close below-grade tank, or proportions: Please be advised that approval of this request does	it of a pit, closed-loop system, below-grade tank, of ure of a pit, closed-loop system, below-grade tank, ification to an existing permit ure plan only submitted for an existing permitted of osed alternative method exiton (Form C-144) per individual pit, closed-loop system not relieve the operator of hability should operations result is r of its responsibility to comply with any other applicable get and the system of t	or proposed alternative method r non-permitted pit, closed-loop system, tem, below-grade tank or alternative request in pollution of surface water, ground water or the
1. Operator: BP AMERICA PRODUCTION	COMPANY OGRID #: 7	78
Address: 200 Energy Court, Farmington,		
Facility or well name: GALLEGOS CANYO		
API Number: 3004526125	OCD Permit Number:	
		County: San Juan County
Center of Proposed Design: Latitude 36.6997	and the second	
Surface Owner: Federal State Private		NAD. [1927 @ 1965
Surface Owner, D Pederal D State A Private		
Pit: Subsection F or G of 19.15.17.11 NM Temporary: Drilling Workover Permanent Emergency Cavitation Lined Unlined Liner type: Thickness String-Reinforced Liner Seams: Welded Factory Other] P&A mil	ther
3.		
intent) Drying Pad D Above Ground Steel Tanks	well Workover or Drilling (Applies to activities where where where we way and the second seco	
4.		
Below-grade tank: Subsection I of 19.15. Volume: <u>95.0</u> bbl Type of Tank Construction material: <u>Steel</u> Secondary containment with leak detection Visible sidewalls and liner X Visible side	17.11 NMAC Tank ID: _A f fluid: Produced Water Image: Strain Str	DTTOMED
5.		
Alternative Method: Submittal of an exception request is required.	Exceptions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.

Released to Imaging: 4/30/2024 2:28:37 PM

5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)		
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school	l, hospital,	
institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet		
Alternate. Please specify 4' Hogwire with single barbed wire		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
8.		
Signs: Subsection C of 19.15.17.11 NMAC		
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
■ Signed in compliance with 19.15.16.8 NMAC		
9. Administrative Approvals and Exceptions:		
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau	u office for	
consideration of approval.		
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acc material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appl office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dr above-grade tanks associated with a closed-loop system.	ropriate district Capproval.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes 🗌 No	
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🗷 No	
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes 🗌 No 🗋 NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No	
(Applies to permanent pus)	× NA	
 (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 		
(Applies to permanent pus) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	₩ NA	
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. 	💌 NA	
 (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. 	▼ NA ▼ Yes □ No □ Yes ▼ No	
 (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. 	 ■ NA ▼ Yes □ No □ Yes ▼ No □ Yes ▼ No 	

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		ttachment Checklist: Subsection B of 19.15.17.9 NMAC ase indicate, by a check mark in the box, that the documents are
 Situng Criteria Compliance Demonstrations - based up Design Plan - based upon the appropriate requirements Operating and Maintenance Plan - based upon the appropriate plan - based upon the approximate plan - based upon - based upon	 based upon the require on the appropriate require of 19.15.17.11 NMAC ropriate requirements of 	ements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC rements of 19.15.17.10 NMAC
Previously Approved Design (attach copy of design)	API Number:	or Permit Number:
2. Closed-loop Systems Permit Application Attachment Ch Instructions: Each of the following items must be attached attached.		f 19.15.17.9 NMAC ase indicate, by a check mark in the box, that the documents are
 Siting Criteria Compliance Demonstrations (only for Design Plan - based upon the appropriate requirement Operating and Maintenance Plan - based upon the appropriate approximation of the approximation o	on-site closure) - based u s of 19.15.17.11 NMAC propriate requirements of	
Previously Approved Design (attach copy of design)	API Number:	
Previously Approved Operating and Maintenance Plan	API Number:	(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to imp	plement waste removal fo	or closure)
Certified Engineering Design Plans - based upon the a Dike Protection and Structural Integrity Design - base Leak Detection Design - based upon the appropriate r Liner Specifications and Compatibility Assessment - Quality Control/Quality Assurance Construction and I Operating and Maintenance Plan - based upon the app Freeboard and Overtopping Prevention Plan - based u Nusance or Hazardous Odors, including H ₂ S, Preven Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requiremen 4.	d upon the appropriate re equirements of 19.15.17, based upon the appropria installation Plan propriate requirements of pon the appropriate requition Plan	equirements of 19.15.17.11 NMAC .11 NMAC ate requirements of 19.15.17.11 NMAC 719.15.17.12 NMAC irements of 19.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes	14 through 18, in regar	ds to the proposed closure plan.
	oval op systems only) ly for temporary pits and On-site Trench Bur	d closed-loop systems)
 Waste Excavation and Removal Closure Plan Checklist: closure plan. Please indicate, by a check mark in the box, Protocols and Procedures - based upon the appropriate Confirmation Sampling Plan (if applicable) - based up Disposal Facility Name and Permit Number (for liquid Soil Backfill and Cover Design Specifications - based Re-vegetation Plan - based upon the appropriate requi Site Reclamation Plan - based upon the appropriate re 	that the documents are is requirements of 19.15. you the appropriate requi ds, drilling fluids and dru upon the appropriate rear rements of Subsection I	17.13 NMAC rements of Subsection F of 19.15.17.13 NMAC Il cuttings) quirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	D NMAC) f more than two
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future so Yes (If yes, please provide the information below) No	ervice and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NM. Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AC
^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable so provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate di considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	strict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Topographic map; Visual inspection (certification) of the proposed site	🗋 Yes 🗋 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🗌 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes 🗌 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗋 Yes 🗋 No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗋 Yes 🗋 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	· 🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map	Yes No
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards can Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	9.15.17.11 NMAC

Form C-144

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Name (Print): Jeffrey Peace	Title: Field	d Environmental Advisor
Signature: Sffrey H. Lear	Date: 06/	14/2010
e-mail address:_Peace.Jeffrey@bp.com	Telephone:	505-326-9479
0. DCD Approval: Permit Application (including closure plan)	Closure Plan (only) OCI	Conditions (see attachment)
OCD Representative Signature		Approval Date: 4/21/11
	2	Approval Date U/ = y ···
Fitle: Environmental Duguer	OCD Permit Nun	ıber:
en. Closure Report (required within 60 days of closure completion Instructions: Operators are required to obtain an approved closu The closure report is required to be submitted to the division with section of the form until an approved closure plan has been obtain	re plan prior to implementing any in 60 days of the completion of the	closure activities and submitting the closure report. closure activities. Please do not complete this been completed.
12		pieton bate,
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method	d 🔲 Waste Removal (Closed-loop systems only)
3. Closure Report Regarding Waste Removal Closure For Closed	-loop Systems That Utilize Above	Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please indentify the facility or facilities for where t		
wo facilities were utilized. Disposal Facility Name:	Disposal Facility I	Permit Number:
Disposal Facility Name:		
Were the closed-loop system operations and associated activities p Yes (If yes, please demonstrate compliance to the items belo	erformed on or in areas that will no	
Required for impacted areas which will not be used for future serv Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ce and operations:	
Ke-vegetation Application Rates and Second reconfidue		
Closure Report Attachment Checklist: Instructions: Each of the mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	n-site closure)	
Site Reclamation (Photo Documentation)	Longitude	NAD: []1927 [] 1983
On-site Closure Location: Latitude		
On-site Closure Location: Latitude	osure requirements and conditions	
On-site Closure Location: Latitude	osure requirements and conditions Title:	specified in the approved closure plan.

Form C-144

SITING AND HYDRO-GEOLOGICAL REPORT FOR GALLEGOS CANYON UNIT COM A 142E

Siting Criteria 19.15.17.10 NMAC

Depth to groundwater at the site is estimated to be less than 50 feet. This estimation is based on data from Stone and others (1983), and depth to groundwater data obtained from water wells permitted by the New Mexico State Engineer's Office (OSE, Figure 1). Local topography and proximity to adjacent water features are also considered. A topographic map of the site is provided as Figure 2 and demonstrates that the below grade tank (BGT) is not within 300 feet of any continuously flowing watercourse or within 200 feet of any other significant watercourse, lakebed, sinkhole or playa lake as measured from the ordinary high water mark. Figure 3 demonstrates that the BGT is within 300 feet of a permanent residence, school, hospital, institution or church. Figure 4 demonstrates, based on a search of the OSE database and USGS topographic maps, that there are freshwater wells or springs within 1000 feet of the BGT. Figure 5 demonstrates that the BGT is not within a municipal boundary or a defined municipal freshwater well field. Figure 6 demonstrates that the BGT is not within 500 feet of a wetland. Figure 7 demonstrates that the BGT is not in an area overlying a subsurface mine. The BGT is not located in an unstable area. Figure 8 demonstrates that the BGT is not within the mapped FEMA 100-year floodplain.

The BGT subject to the attached application for a permit under 19.15.17 NMAC (New Mexico Administrative Code) was in existence prior to promulgation of 19.15.17 NMAC. A review of the best available data and a visual inspection of the siting criteria of 19.15.17 NMAC specific to the BGT in question demonstrate that the BGT does not appear to pose an imminent threat to public health and the environment.

Local Geology and Hydrology

This particular site is located north of the San Juan River, northwest of the racetrack. Topography is dominated by the main channel of the river, its floodplain and terrace deposits. Moving away from the San Juan River, eroded surfaces of the Nacimiento Formation form slopes that are capped by the resistant sandstones of the San Jose Formation.

Regional Geology and Hydrology

The San Juan Basin is situated in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons topographic relief is generally low. Native vegetation is sparse and shrubby. Drainage is mainly by the San Juan River, the only permanent stream in the Navajo Section of the Colorado Plateau. The San Juan River is a tributary of the Colorado River. Major tributaries include the Animas, Chaco and La Plata Rivers. Flow of the San Juan River across the basin is regulated by the Navajo Dam, located about 30 miles northeast of Farmington, New Mexico. The climate is arid to semiarid with an average annual precipitation of 8 to 10 inches. Soils within the basin consist of weathered parent rock derived from predominantly physical means mostly from eolian depositional system with fluvial having a lesser impact. Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). The predominant geologic formation this close to the San Juan River is Quaternary alluvium. Alluvial valley fill consists of gravel, sand, silt and clay (Stone et al., 1983). In the valleys of the San Juan River and its tributaries, the alluvium does not exceed 100 feet in thickness. Terrace deposits consist of boulder gravel resting on benches cut into the Tertiary bedrock of the area. Numerous shallow wells produce water from valley fill for stock and domestic uses along the river and transmissivities are generally high. Much of the water in the valley fill of the San Juan River comes from drainage of irrigated lands, as well as from underlying and adjacent bedrock units.

References

Circular 154—Guidebook to coal geology of northwest New Mexico By E. C. Beaumont, J. W. Shomaker, W. J. Stone, and others, 1976

Stone, et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p

Page 129 of 250

















SOUTHERN SAN JUAN BASIN (SSJB)

Figure Citation List

March 2010

Figure 1: Groundwater Less Than 50 ft.

Layers:

Water Wells:

iWaters Database: NMOSE/ISC (Dec. 2009)

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from: http://www.ose.state.nm.us/waters_db_index.html.

Cathodic Wells:

Tierra Corrosion Control, Inc. (Aug. 2008)

Tierra Corrosion Control, Inc. 1700 Schofield Ln. Farmington, NM 87401. Driller's Data Log. (Data collected: All data are associated with cathodic protection wells installed at BP facilities between 2008-2009. Data received: 05/06/2010).

Hydrogeological Evaluation:

Wright Water Engineers, Inc. (2008)

Evaluation completed by Wright Water Engineers, Inc. Durango Office. Data created using digital statewide geology at 1:500,000 from USGS in combination with 10m Digital Elevation Model (DEM) from NRCS. (Data compiled: 2008.)

Results: Spatial Polygons representing "Groundwater likely to be less than 50 ft." and "Groundwater suspected to be less than 50 ft.".

Surficial Geology:

USGS (1963/1987)

Data digitized and rectified by Geospatial Consultants. (Data digitized: 03/23/2010). Original hard copy maps sourced from United States Geological Survey (USGS). Data available from: http://pubs.er.usgs.gov/.

Geology, Structure and Uranium Deposits of the Shiprock Quadrangle, New Mexico and Arizonia. 1:250,000. I - 345. Compiled by Robert B. O'Sullivan and Helen M. Beikman. 1963.

Geologic Map of the Aztec 1 x 2 Quadrangle, Northwestern New Mexico and Southern Colorado. 1:250,000. I - 1730. Compiled by Kim Manley, Glenn R. Scott, and Reinhard A. Wobus. 1987.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled tiff images and indexed using polygon index layer.

Figure Citation List: Page 1 of 5

Figure 2: Proximity to Watercourses

Layers:

Perennial Streams:

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: <u>http://nhd.usgs.gov/.</u>

Intermittent Streams:

NHD, USGS (2010)

NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: <u>http://nhd.usgs.gov/.</u>

Water Bodies:

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

USGS Topographic Maps:

USGS (2007)

USGS 24k Topographic map series. 1:24000. Maps are seamless, scanned images of USGS paper topographic maps. Data available from: <u>http://store.usgs.gov</u>.

Figure 3: Proximity to Permanent Structure

Layers:

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:

NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

NHD, USGS (2010)

Figure 4: Proximity to Water Wells

Layers:

Water Wells:

iWaters Database: NMOSE/ISC (Dec. 2009)

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from: <u>http://www.ose.state.nm.us/waters_db_index.html.</u>

Springs/Seeps:

NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from: <u>http://nhd.usgs.gov/.</u>

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 5: Proximity to Municipal Boundary

Layers:

Municipal Boundary:

San Juan County, New Mexico (2010)

Data provided by San Juan County GIS Division. (Data received: 03/25/2010).

Shaded Relief:

NED, USGS (1999)

National Elevation Dataset (NED). U.S. Geological Survey, EROS Data Center. (Data created: 1999. Data downloaded: April, 2010). Resolution: 10 meter (1/3 arc-second). Data available from: <u>http://ned.usgs.gov/</u>.

StreetMap North America:

Tele Atlas North America, Inc., ESRI (2008)

Data derived from Tele Atlas Dynamap/Transportation North America, version 5.2. (Data updated: annually. Data series issue: 2008).

Figure 6: Proximity to Wetlands

Layers:

Wetlands:

NWI (2010)

National Wetlands Inventory (NWI). U.S Fish and Wildlife Service. (Data last updated: 09/25/2009. Data received: 03/21/2010). Data available from: <u>http://www.fws.gov/wetlands/.</u>

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 7: Proximity to Subsurface Mine

Layers:

Subsurface Mine:

NM Mining and Minerals Division (2010)

New Mexico Mining and Minerals Division. (Data received: 03/12/2010). Contact: Susan Lucas Kamat, Geologist. Provided PLSS NM locations (Sections) for the two subsurface mines located in San Juan and Rio Arriba counties.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 8: Proximity to FEMA Floodplain

Layers:

FEMA Floodplain:

FEMA (varying years)

Data digitized and rectified by Wright Water Engineers, Inc. (Data digitized: August 2008). Digitized from hard copy Flood Insurance Rate Maps (FIRMs) (varying years) of San Juan County.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection 1 of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection 1 of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

- BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
- 2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
- BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

BP BGT Closure Plan 04-01-2010

- 4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.
- 5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.
- 6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method	Release Verification (mg/Kg)
Benzene	US EPA Method SW-846 8021B or 8260B	0.2
Total BTEX	US EPA Method SW-846 8021B or 8260B	50
TPH	US EPA Method SW-846 418.1	100
Chlorides	US EPA Method 300.0 or 4500B	250 or background

- Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.
- 7. BP shall notify the division District III office of its results on form C-141.
- 8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 - 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegitate the location. The location will be reclaimed if it is not with in the active process area.
 - 10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.
 - 11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil

- 12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.
- 13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.
- Pursuant to Paragraph (5) of Subsection 1 of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.
- Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.Disposal Facility Name and Permit Number
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.
BP AMERICA PRODUCTION COMPANY

Pursuant to Rule 19.15.17.11 NMAC, BP America Production Company (BP) shall construct a below-grade tank (BGT) or modify an existing permitted BGT according to the following plan. Any deviations from this plan will be addressed on the New Mexico Oil Conservation Division's (NMCOD) form C-144 at the time of submittal.

Design and Construction Plan

- 1. BP will design and construct a BGT which will be constructed to contain liquids and prevent contamination of fresh water and protect public health and the environment.
- BP is the well operator and shall install and maintain a well sign that is in compliance with 19.15.16.8 NMAC. The sign will be posted at the well site to address, at a minimum;
 - a. Well Number
 - b. Property name
 - c. Operators name
 - d. Location by footage, quarter-quarter section, township and range (or unit letter)
 - e. API number
 - f. Emergency contact information
- BP will fence or enclose its BGTs in a manner that prevents unauthorized access and shall maintain its fence in good repair.
- 4. BP will fence or enclose a BGT located within 1,000 feet of a permanent residence, school, hospital, institution or church with, at a minimum a chain link security fence at least six (6) feet in height with at least two (2) strands of barbed wire at the top. BP will ensure that all gates associated with the fence are closed and locked when responsible personnel are not on-site.
- 5. BP is requesting NMOCD's approval for an alternative fence design that provides, at a minimum, equivalent protection to the design specified in Paragraph 3 of Subsection D of 19.15.17.11 NMAC for BGTs beyond the stated distance in paragraph 4 of this document. BP's proposed design for its BGTs will utilize 48" steel mesh field-fence (hogwire) with a metal or steel top rail. Perimeter T-post will be installed roughly every 10 feet.
- BP_will construct an expanded metal covering that completely covers the top of the BGT. The covering will be constructed such that it will prevent hazardous conditions to wildlife, including migratory birds
- 7. BP shall construct the BGT of materials that are resistant to produced water, any contained liquids, and damage from sunlight. BP's BGTs will be constructed of carbon steel that meets the requirements of ASTM A36.
- BP's BGTs shall have a properly constructed earthen foundation consisting of a level base free of rocks, debris, sharp edges, or irregularities as to prevent punctures, cracks or indentations to the tank bottom as demonstrated on the design drawing.
- BP will construct and operate the BGT to prevent surface water run-on by using both earthen BP Design Construction Plan-BGT_04012010.doc

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berms and leaving a portion of the BGT above the original grade as demonstrated on the design drawing.

- 10. BP will construct and operate the BGT to prevent overflow and overfilling of the BGT. Overflow will be prevented by use of an electronic high fluid level detector that will automatically engage an electronic shut-off valve when a 1 foot freeboard is reached. The Hi-level automatic alarm notifies well optimizers when liquid level has reached within a preset distance to the top of the BGT. The Hi Hi alarm will trigger the Hi-level automatic shutdown valve which will close in the well until the liquid level can be lowered.
- 11. BP will construct and install a double-walled tank design per Subparagraph (b) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC with a two (2) inch diameter leak detection port. The floor supports located in the annular space of the tank bottom will be channeled to allow outward movement of liquid between the walls. Leak detection will be monitored per BP's Operating and Maintenance Plan. The walls of the BGT will be constructed of carbon steel that meets the ASTM A36 standard. BP's BGT design will insure containment of tank contents and protect underlying groundwater. The production equipment line drain is an automated drain that allows water level in production equipment (generally the separator) to be maintained within the equipment's operating parameters. The environmental drain is a manually operated drain that is used to drain liquids off of equipment. The tank drain is a manually operated drain, typically in the closed position that is used to rid the condensate tank of any water accumulation. The vent drain is a manually operated drain off the discharge of production equipment (usually the separator) and is used to blowdown the wellsite. The swab drain line is a manually operated drain originating between the wellhead and separator and is used during well workovers when large amounts of liquid are removed from the well and sent straight to the BGT.
- 12. BP owned and operated BGTs that were constructed and installed prior to June 16, 2008 that do not meet all the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC and are not included in Paragraph (6) of Subsection I of 19.15.17.11 NMAC are not required to equip or be retrofit to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC so long as the BGT demonstrates integrity. If the existing BP BGT does not demonstrate integrity, BP shall promptly remove the BGT and install a BGT that complies with the BP NMOCD approved BGT design attached to the Design and Construction Plan. BP shall comply with the operational requirements of 19.15.17.12 NMAC.
- 13. BP owned and operated BGTs that were constructed and installed prior to June 16, 2008 that are single walled and where any portion of the tank side wall is below ground surface and not visible shall be retrofit or replaced to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or shall be closed within 5 years of June 16, 2008. If the existing BP owned and operated BGT does not demonstrate integrity, BP shall promptly remove the BGT and install a BGT that complies with the BP NMOCD approved BGT design attached to the Design and Construction Plan. BP shall comply with the operational requirements of 19.15.17.12 NMAC.
- The general specifications for the design and construction of the BGT have been provided in the attached BP design and construction schematic.

BP Design Construction Plan-BGT_04012010.doc



BP AMERICA PRODUCTION COMPANY San Juan Basin in Northwest New Mexico

Below-Grade Tank Operating and Maintenance Plan

Pursuant to Rule 19.15.17.12 NMAC, BP America Production Company (BP) shall maintain and operate a below-grade tank (BGT) with the following requirements. Deviations from this plan will be addressed with a submittal to the New Mexico Oil Conservation Division's (NMOCD) using form C-144 at the time of the BGT permit or modification to an existing permitted BGT application.

Operating and Maintenance Plan

- BP's BGTs will be operated and maintained to contain liquids and solids and promptly identify a release or potential release. BP's BGTs will be operated and maintained to prevent contamination to freshwater and protect public health and the environment. BP will use automated high fluid level alarms and automated shut-off valves to insure that liquids are contained within the vessel and that the vessel does not overflow. These alarms and shut-off valves will be consistent with those demonstrated in the design plan. BP will perform and document inspections of the BGTs on a monthly basis to confirm the integrity of the vessel.
- 2. BP will not knowingly discharge or store any hazardous waste into a BGT
- 3. If a BGT develops a leak, or a release occurs due to mechanical failure or vandalism, or if a penetration of the BGT occurs below the liquid's surface, BP shall: 1) evacuate liquids from the BGT to a level below the damage or leak line within 48 hours; and 2) notify the NMOCD's District III office within 48 hours of the discovery. BP will review #4 of the BP Operating and Maintenance plan prior to any repair or replacement to determine if the BGT and location will require closure. If appropriate BP shall repair or replace the BGT with the BP NMOCD approved design. If a release from the BGT occurs BP shall follow the release reporting procedures of 19.15.29 NMAC. If closure of the BGT is required, BP shall implement the approved closure plan for the BGT.
- 4. If a BP operated BGT that was constructed and installed prior to June 16, 2008 that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC does not demonstrate integrity or if the BGT develops any of the conditions identified in Paragraph (5) of Subsection A of 19.15.17.12 NMAC, BP shall close the existing BGT pursuant to the closure requirements of 19.15.17.13 NMAC and will install a BGT that complies with BP NMOCD approved BGT design attached to the Design and Construction Plan.
- 5. If a BP operated BGT that was constructed and installed prior to June 16, 2008 that does not comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC is equipped or retrofit to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, BP shall visually inspect the area beneath the BGT during the retrofit and shall document any areas that are wet, discolored or showing other evidence of a release on Form C-141. BP shall demonstrate to the division whether evidence of contamination indicates that an imminent threat to fresh water, public health, safety or the environment exists. If the division

BP Operating and Maintenance Plan 04-01-2010

- 6. BP will install and construct the BGT following the BP NMOCD approved Design and Construction Plan, and will control surface water run on by the use of a berm or leaving a portion of the tank wall exposed. BP will use high level shot-off devices to insure that the BGT does not overflow.
- 7. The following requirements adhere to Subsection D of 19.15.17.12 NMAC.
 - a. BP will remove any visible or measurable layer of oil from the fluid surface of the BGT.
 - b. BP will inspect the BGT monthly. The monthly inspection will consist of the following:
 - i. Personnel will conduct a walk-around of the BGT to observe any abnormalities or signs of corrosion on the vessel. Personnel will inspect the surface run-on berm. Where applicable, inspection of the BGT's double wall – double bottom inspection port, tank flanges and valves for signs of leakage or spills will be conducted. Personnel will record any BGT deficiencies, repair as necessary and report to BP Dispatch Office immediately if an imminent danger to fresh water, public heath, or to the environment is observed. BP will maintain a written record of the monthly inspections on the BP inspection from referred to as the San Juan Lease Inspection Form. BP will maintain these written records for at least five (5) years. A copy of the San Juan Lease Inspection Form is attached.
- 8. BP will maintain sufficient freeboard of one foot in the BGT to prevent overtopping.

Date:	Run:		Location: Name of Inspector:
Yes	Action	N/A	Required Signs
			Does location have Well Sign and emergency phone number?
		_	Do compressor engines have Hearing Protection signs?
_		<u> </u>	Hydrogen Sulfide Signs (where applicable)
	1	<u></u>	Chemical containers and tanks have proper Hazcom label or BP Multi-Product Hazcom numbers?
Yes	Action	N/A	Location- General
1	1.000	1.00	Housekeeping satisfactory?
			Tripping or falling hazards are absent? If NO, identify and report to FSC.
			Rig anchors/Deadmen adequately marked and visible if they present a hazard to drivers?
	-	_	Driving hazards such as risers are marked or flagged?
1	1		Painting meets safety standards?
		<u> </u>	Cattleguards/gates properly maintained?
			Tarps in good repair?
			Seeps, drips, or leaks are absent?
			Is weed control adequate?
		1 1	Stains on ground are absent? If NO, remediate immediately, identify and report to FEC.
			Are there any open ended valves that are not plugged?
Yes	Action	N/A	Vessel/Tank
103	Action	()	Adequate fencing around below grade tank?
	1		
			Are the dike/berm walkover in place, used and stable?
			Are dikes/berms in good condition?
		-	Is there adequate and safe access to pit for gauging?
			Does the pit have a high level alarm?
	1		Are stairways and catwalks properly maintained and in good condition?
			Toprail, midrail and toeboard in place?
-			Are thief hatches in good condition, seal properly, and in the closed position?
_		_	
			Is tank vent line equipped with a PV valve? (Enardo)
_		_	Does the tank have a high level alarm?
			Are open ended load lines and pipes capped?
			Is soil around load lines clean of oil stains?
			Is tank area free of any evidence of seeps or leaks (including manway cover)?
	-	100	Are there proper seals on sales and drain valves?
			Are all suspected dump lines well supported?
		_	
<u> </u>			Are above ground dump lines marked with t-posts and plastic covers?
			Have all fiberglass drip pits been removed?
Yes	Action	N/A	Treaters/Separators/Compressors/Pump Jacks
			If there is a block valve upstream of the relief valve, is the block valve secured in the open position?
		Variab	Are relief valve discharge and blow downs piped to a safe area and secured against movement?
		1000	Has flame arrestor been inspected within the last 5 years?
_			Is flame port closed?
			Do all lines pass through a super muffler or swirl pot to the pit/tank? If not, are all lines secured?
-			
			Is starting gas vented to a safe area, at least 10' vertically?
		_	No excessive vibration, knocking or unusual noises anywhere on unit or piping?
			Are site glasses in operating condition?
		-	Are environmental rails piped to a pit in a dedicated line?
		1	Do all blow downs, relief valve discharges, and risers have rain caps?
		122.2	Stuffing box leaks are absent?
		(<u> </u>	Are the weight guards and belt guard in place?
		_	
			Are skids in good condition?
-			Are concrete bases / foundations in good condition?
	1		Are concrete bases free from erosion or settlement problems?

Signature of Inspector: My signature assures that this location is SAFE, is in compliance with the LAW, and exhibits high standards of Pride, Ownership and Excellence.

Jones, Brad A., EMNRD

From:	Shaw, Buddy D [buddy.shaw@bp.com]
Sent:	Friday, June 17, 2011 10:49 AM
To:	Jones, Brad A., EMNRD
Cc:	Peace, Jeffrey; Schwab, Lorinda A
Subject:	BP BGT CLOSURES

Please process closure permit for the following sites:

GCU Com A 142E	3004526125	Tank A	Sector 9
Tapp LS 7	3004520322	Tank A	Sector 7

THANKS Buddy

(505) 320-0401

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ATTACHMENT J



MONITORING WELL INSTALLATION RECORD

 Philip Environmental Services, Inc.

 4000 Monroe Rd.

 Farmington, NM 87401

 (505) 326-2262

 FAX (505) 326-2388

Elevation

Well Location T29N-RIZW-S2S-L'G'GWL Depth 12' Installed By M DONOHUE

Date/Time Started Date/Time Completed $\frac{2/26/97 - 1000}{u}$

	1			1	Top of Riser	43
Item	Material	Depth (feet)			Ground Surface	- 0'-
Top of Protective Casing						
Bottom of Protective Casing						
Top of Permanent Borehole Casing		N/A				
Bottom of Permanent Borehole Casing		N/A				
Top of Concrete						
Bottom of Concrete						
Top of Grout						
Bottom of Grout						
Top of Well Riser	SCHED YO PVC	+3'				
Battom of Well Riser		3,5				,
Top of Well Screen	010 SCREEN	3,5			Top of Seal	-0-
Bottom of Well Screen	<u>i</u> 1	18.5	× × × ×	x x x x		
Top of Peltonite Seal	ENVIROPLUG.	0'-	x x x x	x x x x		- 7/
Bottom of Peltonite Seal	1/	-2'	X X	XX	Top of Gravel Pack	-3,5
Top of Gravel Pack	10-20 SAND	-2'			Top of Screen	
Bottom of Gravel Pack	i/	18.5		-		
Top of Natural Cave-In		-1815				
Bottom of Natural Cave-In		201		1		
Top of Groundwater		12'		1	Bottom of Screen	-18.5
Total Depth of Borehole		20'	<u>L </u>		Bottom of Borehole	- 10

Comments:

Geologist Signature

Borehole # 2 Well # / Page / of /

<u>EPFS GW pits</u> <u>17520</u> Phase 6002, 77 GCU COM A # 142E-78906

Project Number Site Location

Project Name

On-Site Geologist Personnel On-Site Contractors On-Site Client Personnel On-Site



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RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC. 4000 Monroe Road Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Elevation	
Borehole Location	T 29 R 12 S 25 LUG
GWL Depth	1715 -> 12
Logged By	D CESARK
Drilled By	M DONOHUE
Date/Time Started	2.126/97-0900
Date/Time Completed	<u> </u>

Project Name	EPFS GW P	ITS		
Project Number	17520	Phase	6001.77	
Project Location	GCU CO	MA #	142E-03	906

Borehole #

Well # Page

Well Logged By Personnel On-Site Contractors On-Site **Client Personnel On-Site**

D	CESARK	
N	CHARLEY	

BH-

4 1/4" ID HSA Drilling Method PID, CGI Air Monitoring Method

Depth Sample Air Monitoring Drilling Conditions USCS Lithology Sample Description Type & Depth Sample Sample Units: PPM & Blow Counts Classification System: USCS Change Symbol (Feet) Number Interval Recovery 271MEZ BH ΒZ (leet) (inches) 111. 0 BACKFILL 5 TO 9 CL 209207 9-10 (15) 1/2 1 VERTSTIFF SILTY (LAY, GUNS 10 PEBBLE DE. BROWN, NOTIC LSAME AS ADOLE) BUT MICHLY 201307 110 CL 467 CONTRIMINATED (STAIN + 2022) 2 13-15 24" 15 COBBLES/GEAVES (NO SAMPLE) GWC 17,5 20 TD = 20'25 30 35 40 TD=20' GEAVEL (COBOLE ZONE ENC. C 15.5' BGS, LAST RETREIVABLE SAMPLE WAS HIGHLY CONTAM. SO NOT SUBMITTED TO LAB. GW ENCLUNTERED C 17.5' BGS. SET WELL-PLENSE REPER TO WELL COMPLETION DIAGRAM. Comments: Geologist Signature

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MONITORING WELL INST		D		Во	orehole #/
AESE/GEM 906 San Juan Blvd, Ste. D Farmington, New Mexico 87401 (505) 566-9116 FAX (505) 566-9120			Project Nan Project Numb		ell # <u>Mw-Z</u> ge <u>1</u> of <u>1</u> <u>Man thring We</u> Cost Code Canyon Unit com eten 03900
Installed By <u>ACPT</u>	200' ZAN RIZW S- ZGS HEA 2/61 1030	с г 75 ,G1 — Clie	On-Site Geologi Personnel On-Si	st <u>////////////////////////////////////</u>	Canyon Unit (on eter 03900 Bditle, TJ Vald-
Depths in Reference	e to Ground Surface				
Item	Material	Depth		Top of Protect	tive Casing
Top of Protective Casing	6"steel	(feet) 2 46		Top of Riser	<u>z Z'</u>
Bottom of Protective Casing	6"stal	-154		Ground Surfac	ce
Top of Permanent Borehole Casing Bottom of Permanent Borehole	NA				
Casing	Buickcrake	+033			
Top of Concrete	Quickerser				
Bottom of Concrete	IYPEILE I	-0.33 -0.33			
Top of Grout Bottom of Grout	215 10 guilt	-400			
Top of Well Riser	Z'D PVC	721			
Bottom of Well Riser	Z'IDIZM, pre	-727			
Top of Well Screen	2"D Sch 40 .010 3/0+	-727		Top of Seal	-400
Bottom of Well Screen	PVC15'	-2265	000 000		
Top of Peltonite Seal	3/8 chip bent,	-400			
Bottom of Peltonite Seal	Berdido	-510		Top of Gravel	Pack -510
Top of Gravel Pack	10 685 10-20			Top of Screen	-7-77
Bottom of Gravel Pack	Silice Send	-1750		- op or wereen	
Top of Natural Cave-In	-	-1750			
Bottom of Natural Cave-In		-2300			
Top of Groundwater		-1170		Bottom of Scre	en $-\frac{72}{22}$
Total Depth of Borehole		-2300	2. The second s Second second sec	Bottom of Bore	$\begin{array}{rcl} \text{en} & -\frac{72^{\circ}}{23^{\circ}}\\ \text{hole} & -\frac{73^{\circ}}{23^{\circ}} \end{array}$

Comments:

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Geologist Signature –

RECORD OF SUBSURFACE EXPLORATION

an AESE Comp 906 San Juan Boult Farmington, New 1 (505) 566-9116 F Elevation Borehole Locat GWL Depth Logged By Drilled By Date/Time Sta	evard, Suite D Mexico 87401 FAX (505) 566-9120	20 2 45' NW MW- BG5 2-01 1030	ł	Project Narr Project Nurr Project Loca Mct How Well Logged Personnel O Contractors Chient Person Drilling Meth Air Monitorin	ber 616 tion 73609 By 4 Di-Site 2 Din-Site 2 Inel On-Site ad HSA	103/2	MW Ise MY M Un K Padillo Benelle C		
Depth (Feat) 0 5 10 10 15 20 25 25 30 35	90, 20%	Sample Descriptin Classification System: D-1 Fill w/c 1-15 Sender Clay Moder Y	uses obbies finite dis finite onsolute spine back yish staines arting	USCS Lit Symbol C (ange Units	Sentoring I: NDU BH S S S S S S S S S S S S S S	Z/ Z/ Z/	Sunts	
40 Comments:		TO 23' BGS IN	Cobble.				,, 6		
conments.			Geologist Sign	ature,	M.		-		

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12/18/01\Drillog



Drilling Log

FINAL

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Gi	Ð	IV	ĪV	VF		Monitoring Well MW-3 Page: 1 of 1		NAL
Project	GCU#1	42E				Owner EPCGPC COMMENTS		
Location			ounty, N	lew Mex		Project Number <u>10504833.010301</u>		
Surface I								
Top of C						nitial <u>↓</u> Static <u>↓ 5471.72</u> 00:00		
Hole Dep				reen: Di				
Hole Dia Drill Co.	_			asıng: Di		r <u>2 in</u> Length <u>5.0 ft</u> Type <u>PVC</u> ing Method <i>Hollow Stem Auger</i> Sand Pack 10-20		
				ske Drille	-	# WD-1210 Log By Brad Barton		
Start Dat						etion Date 8/24/2014 Checked By Jeff Bechtel		
Be	entonite G	Frout	🗱 Ве	entonite G	ranules	Grout Portland Cement Sand Pack		
		ک ا	t >			Description		u
Depth (ft)	(mqq	Recovery	Blow Count Recovery	Graphic Log	nscs		:	Well Completion
<u> </u>	ਜ ਕ	% Re	Rec	ß) S	(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.		Com <
							+	
							•	
- 0 -	_			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CLAY, yellowish-brown, with fine grained sand and silt, low plasticity,		
-	_					slightly moist, no hydrocarbon odor; (hydro-vac from 0-10' bgs; logged		
-	-					from cuttings).		
-	-							
-	-							
- 5 -	0.0	0%			CL			
	-							
	_							
-	-							
F 10	1					Cobbles up to 4" diameter present.		
- 10 -					SC	Clayey SAND, yellowish brown (10 YR 5/4), fine to medium grained sand, trace gravel (up to 1.5" in diameter), low plasticity, loose, wet (due to use		
	0.0					of water during drilling), no hydrocarbon odor.	/	
-	_	26%				No recovery		
-	0.0							
- 15 -	_			1.1.7.7.7.		Clayey SAND, yellowish brown (10 YR 5/4), fine to medium grained sand,	_	
-	109	MW-3 16-	IX		sc	increasing amount of gravel, low plasticity, loose, wet (due to use of water		
-	-	18'		[].[].[]	1	during drilling), moderate hydrocarbon odor.	-	
-	-	36%						
\vdash	_ 20.9							
- 20 -	-				SP	SAND with gravel, dark gray, (gravel rounded to sub-rounded, up to 2.5" in		
9/14	14.3					diameter), poorly graded, poorly graded, loose, wet, slight hydrocarbon odor.		
11/2	-	22%				No recovery	J	
A.GDT	10.4	22.70						
т								
≩— 25 - ⊒_]				GW	Gravel.	1	\bigtriangledown
2E.GPJ	0.1	35%				No recovery.		
GCU#14:	_					Well set at 25.5'		
00 00	_					Hole depth = 27'.		
의 - 30 -	_							

Drilling Log

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						Drilling Log	FINAL
		IV	IV	VH		Soil Boring	MW-4 Page: 1 of 1
Project	- GCU#1	42E				Owner EPCGPC	COMMENTS
Location	San J	luan Co	ounty, I	New Mex	ico	Project Number	
Surface E			0 ft	North	207402	23.671 East _2660627.624	
Top of Ca	_			Water L	evel Ir	itial $\underline{\nabla}$ Static $\underline{\mathbf{Y}}$	
Hole Dep				creen: Di			
Hole Dian	_			asing: Di			
Drill Co.				ske Drille		ng Method <u>Hollow Stem Auger</u> Sand Pack <u>NA</u> # WD-1210 Log By Brad Barton	
Start Date			yuu		-	etion Date 8/25/2014 Checked By Jeff Bechtel	
Ber	ntonite C	Grout	В			Grout Portland Cement Sand Pack Sand Pack	
oth Oth	۵Ê	Recovery	Blow Count Recovery	bhic	SS	Description	
Depth (ft)	(mqq)	Rec	Reco	Graphic Log	nscs	(Color, Moisture, Texture, Structure, O	
		%				Geologic Descriptions are Based on the USC	S.
- 0 -						Silty SAND, yellowish-brown, fine grained sand, trace grave no hydrocarbon odor; (hydro-vac from 0-10' bgs; logged fro	el, loose, slightly moist, m cuttings)
							in cattings).
- 5 -	0.0	0%			SM		
		0,0					
- 10 -						Fat CLAY, brown, medium stiffness, high plasticity, no dilat	ancy, moist, no
	0.6					hydrocarbon odor.	
		100%				Color changes to dark gray, moderate hydrocarbon odor, m	noist to very moist.
	267	MW-4 13-			СН		
15		15'					
- 15 - 	6.7					Slight hydrocarbon odor, wet.	
	0.1					No recovery. SAND with gravel, brown, well graded, grave	l up to 1.5" diameter
		30%			SW	(rounded), loose, no cementation, wet, very slight hydrocar cuttings).	bon odor (logged from
	1.6						
- 20 -			-	•••••••••		No recovery, driller reports very hard drilling.	
		0%					
						Hole depth = 22', refusal. Borehole abandoned with portlan grout.	d cement-bentonite
						-	
- 25 -							
- 25 - - 25 - 							
- 30 -							

Drilling Log

-	FI	N/	٩L	
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					-	Drilling Log	
Ŵ	J	IV		VH		Monitoring Well MW-5	FINAL
Project	GCU#1	42E				Owner <u>EPCGPC</u> COMMENTS	
Location	San J	uan Co	ounty, N	Vew Mex	ico	Project Number <u>10504833.010301</u>	
Surface E Top of Ca	-			North _2 Water L		08/24/14	
Hole Dept				reen: Di			
Hole Dian				asing: Di			
Drill Co. Driller M				ske Drille		ng Method <u>Hollow Stem Auger</u> Sand Pack <u>10-20</u> # WD-1210 Log By Brad Barton	
Start Date			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	etion Date 8/24/2014 Checked By Jeff Bechtel	
	ntonite G		💥 Ве	entonite G	ranules	Grout Portland Cement Sand Pack Sand Pack	
Depth (ft)	(mqq)	% Recovery	Blow Count Recovery	Graphic Log	nscs	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
- 0	0.0	0%			SM	Silty SAND, yellowish-brown, fine grained sand, loose, slightly moist, no hydrocarbon odor; (hydro-vac from 0-10' bgs; logged from cuttings). Fat CLAY, brown, high plasticity, medium stiffness, moist, no hydrocarbon	
	0.0	90%			СН	odor. Color changes to dark gray, moderate hydrocarbon odor, minor black staining.	
- 15 - 15	944				СН	 No recovery. Fat CLAY, brown, high plasticity, medium stiffness, moist, no hydrocarbon odor. 	
	-		ľ			No recovery.	
	1164	32% MW-5 18- 20'					
- 20 	16	18%			SP	SAND with gravel, poorly graded, black, fine to medium grained sand, gravel up to 1.5" in diameter, loose, no cementation, wet, hydrocarbon staining, moderate hydrocarbon odor. No recovery.	
25 - 25 	2.2	35%		* * * * * * * * * * * * * *	SW	SAND with gravel, well graded, light brown, gravel up to 1.5" in diameter, loose, no cementation, wet, slight hydrocarbon odor. No recovery.	
	-					Well set at 25.5' Hole depth = 27'.	
- 30 -	-						

Drilling Log

		N	IV	VH		Monitoring Well MW-6 Page: 1 of 1	FINAL
Project	San J	uan Co				Owner EPCGPC COMMENTS Project Number 10504833.010301	
Surface E Top of Ca Hole Dept	sing _	5481.4	!5 ft	North _2 Water L	evel Ir	itial ∑ Static ¥ 5466.55 08/25/14 00:00	
Hole Dian Drill Co.	neter Nation	8.25 in al EWI	Ca P	creen: Dia asing: Dia	amete Drill	r <u>2 in</u> Length <u>5.0 ft</u> Type <u>PVC</u> ing Method <u>Hollow Stem Auger</u> Sand Pack <u>10-20</u>	
Start Date		2014	-	C	Comple	# WD-1210 Log By Brad Barton etion Date 8/25/2014 Checked By Jeff Bechtel Grout Original Comment Sand Pack	
Depth (ft)	(mqq)	% Recovery	Blow Count Recovery	Graphic Log	nscs	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
- 0 -							
- 0 - 5 - 10	0.0	0%			SM	Silty SAND, yellowish-brown, fine grained sand, loose, dry to slightly moist, no hydrocarbon odor; (hydro-vac from 0-10' bgs; logged from cuttings).	
- <u> </u>	0.4	52%			СН	Fat CLAY, brown to dark gray with depth, trace gravel, medium stiffness, high plasticity, moist, moderate hydrocarbon odor at ~13'.	
	973	5270					
	1533	MW-6 16- 18'	X		СН	Fat CLAY, brown to dark gray with depth, trace gravel, medium stiffness, high plasticity. No recovery. Clayey SAND, dark gray, low plasticity, loose, wet, strong	
	488	38%			SC	hydrocarbon odor (logged from cuttings).	
+ 20 - + +	55.4 4.3	65%			SW	SAND with gravel, well graded, dark gray, fine to medium grained sand, gravel up to 1.5" diameter (rounded), loose, slight to moderate hydrocarbon odor.	
		0%				No recovery.	
						Well set at 25.5' Hole depth = 27'.	
اد	Ĩ	1	1	1			1

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Drilling Log

		N	IV	VH		Monitoring Well MW-7 Page: 1 of 1	FINAL
Project (<u>GCU</u> #1	42E				Owner EPCGPC COMMENTS	
Location	San J	uan Co	ounty, N	Vew Mexi	ico	Project Number10504833.010301	
Surface El Top of Cas	sing _	5481.8	0 ft	Water L	evel Ir	itial∑Static ∑ 5471.45	
Hole Deptl	h <u>27.</u>	Oft	Sc	reen: Dia	amete	r <u>2 in</u> Length <u>20.0 ft</u> Type/Size <i>PVC/0.01 in</i>	
Hole Diam Drill Co.				asing: Dia		r <u>2 in</u> Length <u>5.0 ft</u> Type <u>PVC</u> ng Method <i>Hollow Stem Auger</i> Sand Pack 10-20	
-				ske Drille		# WD-1210 Log By Brad Barton	
Start Date						etion Date <u>8/24/2014</u> Checked By <u>Jeff Bechtel</u>	
Ben	tonite G	Frout	В	entonite G	ranules	Grout Portland Cement Sand Pack Sand Pack	
th.	٥Ê	Recovery	Count	bhic g	SS	Description	etion
Depth (ft)	(mqq) DIA	% Rec	Blow Count Recovery	Graphic Log	NSCS	(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
- 0	0.0	0%			SM	Silty SAND, cobbles, yellowish brown, very fine grained sand, trace gravel, moist to slightly moist, no hydrocarbon odor (hydro-vac from 0-10' bgs; logged from cuttings). Fat CLAY, brown, high plasticity, medium stiffness, moist, slight	
 	60.8 1170	100%			СН	hydrocarbon odor. Color changes to dark gray, moderate hydrocarbon odor. Minor black hydrocarbon staining.	
	954		X		SP	SAND with gravel, poorly graded, black hydrocarbon staining, gravel up to	
	1159	30% MW-7 18- 20'				1.5" in diameter, fine grained sand, loose, no cementation, wet, strong hydrocarbon odor.	
- 20	1.3	20%			SW	SAND with gravel, graded to well graded, gravel up to 1.5" in diameter (sub-round to sub-angular), fine to medium grained sand, loose, no cementation, wet, slight hydrocarbon odor.	
 - 25 	1.9	30%	X	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SW	SAND with gravel, graded to well graded, gravel up to 1.5" in diameter (sub-round to sub-angular), fine to medium grained sand, loose, no cementation, wet, slight hydrocarbon odor. No recovery.	
 - 30						Well set at 25.5' Hole depth = 27'.	

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rilling Log

						Drilling Log	FIN	NAL
	シ	IV		VH		Monitoring Well MW-8 Page: 1 of 2		
Project	GCU#1	42E				Owner EPCGPC COMMENTS		
Location			ounty, I	Vew Mex	ico	Project Number 10504833.010301		
Surface E				North				
Top of Ca	asing _	5481.8	33 ft	Water L	evel Ir	nitial∑Static <u>▼</u> 5471.6 08/24/14 00:00		
Hole Dep				creen: Di				
Hole Diar				asing: Di				
Drill Co.					-	ing Method <u>Hollow Stem Auger</u> Sand Pack <u>10-20</u>		
			n Nydo		-	.# <u>WD-1210</u> Log By <u>Brad Barton</u>		
Start Date Be	e <u>0/23/2</u> entonite G	-	В			etion Date 8/24/2014 Checked By Jeff Bechtel Grout Portland Cement Sand Pack Sand Pack		
Depth (ft)	DID (mdd)	Recovery	Blow Count Recovery	Graphic Log	nscs	Description	=	vvell Completion
	- 9	% R	Blow	Ъ_		(Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.		Con
- 0 -								
	-				SM	Silty SAND with cobbles; (hydro-vac from 0-2'; logged from cuttings).		
	-					CLAY, with silt and sand, yellowish brown, trace gravel, fine grained sand, low plasticity, moist to slightly moist, no hydrocarbon odor; (hydro-vac		
	-					from 2-10'; logged from cuttings).		
- 5 -	0.0	0%						
	-				CL			
- 1	-							
	-							
- 10 -					СН	Fat CLAY, dark yellowish brown (10 YR 5/6), trace gravel, soft, high plasticity, no dilatancy, moist, no hydrocarbon odor.		
	0.0		ΙĽ	<i>/////</i>		No recovery.	_	
		32%				No recovery.		
	0.0	MW-8 13-						
- 15 -		15'						
						No recovery.		
	N/R							
	_	0%						
	N/R							
- 20 -	_				SP ,	SAND with gravel, poorly graded, brown, fine grained sand, loose, poor		
	4.0					recovery, hydrocarbon odor.		
						No recovery.	- 	
	_	8%						
	N/R							
- 25 -	-				GW	\sim GRAVEL and cobbles with sand, poor recovery.		₹, ;
	0.0	20%				No recovery.		
	-					Well set at 25.5'		
	-					Hole depth = 26.5'; refusal.		
	-							
- 30 -	-							

Drilling Log GCU#142E.GPJ MWH IA.GDT 11/29/14

	4000 Monroe Rd. Formington, NM 87401 (505) 326-2262 FAX (505) 326-2388	Project Name Project Numbe		of <u>1</u> Phase 6006	
	Elevation Well Location <u>Ltr (> -s 25-129-R1)</u> GWL Depth <u>19.93' T.D.C</u> Installed By M Demp Lye	On-Site Geolo Personnel On- Contractors O Client Personn	Galleges Cungen 02906 gist CCHANCE Site Coome n-Site	Dait AIYDE	
	Date/Time Started 9/25/97 Date/Time Complete 9/25/97				
	COMMENTS		Top of Protective Casing Top at Riser (survey elev.) Ground Surface	<u>NA</u> <u>85.14</u>	
1	PZI is all & J' From MWI Collect soil sample From 8-10'		•		
	BGS Br sandy CLAY, UT sund				
	Soft, med-hi plastic, moist, odor Install piezomotor + collect				
	GW sample (CM()54) + sond				
~	$\frac{10 \text{ lab. Cobbles } @ 16.5'}{P1D = 1014 ppm}$				
				. / .	
			Top of Seal	<u>NA</u>	
			Top of Gravel Pack	<u>NK</u>	
			Top of Screen	<u>_5'</u>	
			Dallage -1 Cours	15'	
			Bottom of Screen Bottom of Borehole	<u>15'</u> <u>16.5</u>	
	MWI Survey 85.17	97 TV 91 - 1. Langer, carry and a 1. Langer, 1. J.			

	M	Dorobolo #
	N	Borehole # Well # <u>PZ- A</u> Pag 1 of 1
Philip Services Corp. 4000 Monroe Rd. Farmington, NM 87401 (505) 326-2262 FAX (505) 326-2388	Project Name <u>EPFS</u> Project Numbe 17520 Site Location Gallera	GW PITS Phase Phase Unit A
Flevation Well Location Ltr G -SSS-T29-R12 GWL Depth 15-24 TDC Installed By M. Decentre		C CHANCE C Genez
Date/Time Started <u>9/26/17</u> Date/Time Complete <u>9/26/197</u> COMMENTS PZZ is 275° + 52' From MWI Collect spil sumple 8-10' BGS: Br sandy CLAY, ut sand, sptr high plassic, dry.		ctive Casing NA {survey elev.] <u>85.2</u> ace NA
- Install temp pieze t Collect GW sample (cmc 355)		
	X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	-,
	X X X Top of Gr	avel Pack <u>M</u>
	Bottom of Bottom of	of Screen <u>17</u> of Borehole <u>17</u>
MWI survey 85.17		
MWINSTAL WRT		

Page 165 of 250	0		0	
Page 1	TEMPORARY PIEZOMETER INSTALLAT	ON	Boreho	
0	Philip Services Corp. 4000 Monroe Rd. Farmington, NM 87401 (505) 326-2262 FAX (505) 326-2388	Project Name Project Numb	pe 17520	PZ- 3 1_ of 1_ Phase 6006
	Elevation Well Location Ltr G -S25-T29-RT2 GWL Depth Installed By M. Deschyr Date/Time Started 9/26/17	Site Location On-Site Geolo Personnel On Contractors C Client Personi	D3406 Ogist C CHANCE -Site C 60m Dn-Site	Vnit A142E
	Date/Time Comple <u>te 9 126 197</u>		Top of Protective Casing Top of Riser (survey elev.)	
	PZ3 is 165° & 45' From MWI		Ground Surface	N/A
	Br sandy CLAY, VF sand SoFt,			
•	PID= 1357 ppn Install well pt + Collect			
	GW sample (CMC 356). Pull wellet & grout AH			
			Top of Seal	NA
		X X X X X X X X X X X X X X X X X X X X	Top of Gravel Pack	M
12:17:07 PM			Top of Screen	<u>[]</u>
ceived by OCD: 3/30/2022 12:17:07 PM			Bottom of Screen Bottom of Borehole	<u>_16'</u> _ <u>17'</u>
ceived by O	MWINSTAL.wk)	eologist Signature	Conch	•~!!

Released to Imaging: 4/30/2024 2:28:37 P.M.

16 16 17 117

Philip Services Corp. 4000 Monroe Rd. Farmington, NM 87401 (505) 326-2262 FAX (505) 326-2388	Pag 1 of 1 Project Name EPFS GW PHIS Project Numbe 17520 Phase 6006 Site Location Galleroc Canzon Unit A142E D3406
Elevation Well Location Ltr $(G -Sag -Tag - RTag - RTTAg - RTTAg - RTTAg - RT$	On-Sile Geologist C CHANCE Personnel On-Site Contractors On-Site Client Personnel On-Site
Date/Time Comple <u>te 972677</u>	Top of Protective Casing
- P24 is 95° 125' From MWI	Top of Riser (survey elev.)
- No soil sample collected. Drilling in backfill Install wellpt t	
Collect GW sample (CMC357)	
BH BH	
	Top of Seal
	$\begin{bmatrix} X \\ X $
	Bottom of Screen <u>16'</u> Bottom of Borehoie <u>17'</u>

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TEMPORARY PIEZOMETER INSTALLAT	ION Borehole #
Philip Services Corp. 4000 Monroe Rd. Farmington, NM 87401 (505) 326-2262 FAX (505) 326-2388 Elevation Well Location Ltr 6 -S&S-T&9-R (2)	Well # PZ-5 Pag 1 of 1 Project Name EPFS GW PIIS Project Numbe 17520 Phase 600 Site Location Calleros Cargon Unit Alv On-Site Geologist C CHANCE Barconnel On Site
GWL Depth Installed By <u>M. Downtop</u> K. P.J. Ilg Date/Time Started <u>9/29/97</u> Date/Time Complete	Personnel On-Site Contractors On-Site Client Personnel On-Site
COMMENTS - PZS is 175° + 119' Fro-MWI - Collect soil sumple 8-10' BGS: Br silty CLAY, soft, hi plastic abt UF sand, dry PID = 1150 prm - Install temp. will pt t collect GW sample (CMC 358) - P. 11 well pt t growt BH	Top of Protective Casing Top of Riser (survey elev.) Ground Surface
	X X X X X X X X X X X X X X X X X X X X
	X X X Top of Gravel Pack <u>MA</u> Top of Screen <u>9</u>
	Bottom of Screen <u>J 4</u> Bottom of Borehole <u>J 5</u>
MWINSTAL.wk1	Geologist Signature

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Philip Services Corp.		Well# PZ- Pag 1 of
4000 Monroe Rd. Farmington, NM 87401 (505) 326-2262 FAX (505) 326-2388	Project Name EPFS Project Numbe 17520 Sife Location	GW PITS Pha
Elevation Well Location LIr G -S 25-T 29-R) 2 GWL Depth Installed By K. P. J.: 11 Date/Time Started 9/29/97	On-Site Geologist Personnel On-Site Contractors On-Site Client Personnel On-Site	C CHANCE
Date/Time Complete 9/29/97 COMMENTS PZ6 ; s 30 & 44 From MU Collect Soilson de 8-10' B6S: Br silty CLAY, med Stiff, high plastic, mod v Fsand, dry flo = 1059pron Install well pt & collect GW sample (CM(359) Pull well pt & grawt		tective Casing
<u>B</u> H	X X X X X X X X X X X X X X X X X X X X	avel Pack
	Bottom of	

6 - 21 I - - - I

5 PH14

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Review by OCD: 3/30/2022 12:17:07 PM

Date/Time Started

Date/Time Completed

MONITORING WELL INSTALLATION RECORD

1/6/06 0925

1/6/06 1136

Borehole #

1

			Well # TMW-1		
Lodestar Servic	es, Inc		Page 1 of 1		
PO Box 3861					
Farmington, New Me	exico 87499	Project Name	El Paso Ground Water		
(505) 334-2791		Project Number	Cost Code		
		Project Location	T29N, R12W Sec. 25, Unit G		
Elevation		On-Site Geologist	M. Nee		
Well Location	Gallegos Canyon Unit Com A 142 E	Personnel On-Site			
GWL Depth	-15.29 BTOC	Contractors On-Site	D. Bromley M. Porter		
Installed By	Lodestar (Geologist)	Client Personnel On-Site			
	Direct Push (Geoprobe)				

	to Ground Surface				
Item Material				Top of Protective Casi	-
Top of Protective Casing	na			Top of Riser	2.0_
Bottom of Protective Casing	na			Ground Surface	0.0_
Top of Permanent Borehole Casing Bottom of Permanent Borehole Casing	na			-	
	na				
Top of Concrete	na				
Bottom of Concrete	na				
Top of Grout	na				
Bottom of Grout	na				
Top of Well Riser	1-inch ID PVC	2.00			
Bottom of Well Riser	1-inch ID PVC	20.08			
Top of Well Screen	1-inch ID .010 slotted PVC	-10.38		Top of Seal	0.0_
Bottom of Well Screen	1-inch ID PVC	-19.29	∞		
Top of Peltonite Seal	3/8-inch bentonite chips	0.0	∞		
Bottom of Peltonite Seal	3/8-inch bentonite chips	-8.0		Top of Gravel Pack	8.0
Top of Gravel Pack	10-20 silica sand	-8.0		Top of Screen	10.3
Bottom of Gravel Pack	10-20 silica sand	-20.00			
Top of Natural Cave-In	na				
Bottom of Natural Cave-In	na				
Top of Groundwater	na	-13.29		Bottom of Screen	19.2
Total Depth of Borehole	na	-20.00		Bottom of Borehole	20.0

Comments: ____Set rocks around well and painted them orange to protect casing_____

___MW-1, MW-2 and TMW-1 form an equilatteral triangle with 43 foot sides____

Geologist Signature <u>Martin Nee</u>

J:\Clients A - H\EPC\San Juan River Basin\1004917 GW Sites 2006-2007\Technical\Groundwater Sites\Gallegos 142\TMW-1 Completion.doc

ATTACHMENT K





LEGEND:

<u>—5795</u>	APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
	ACCESS ROAD
	UNKNOWN LINE (POTENTIALLY ABANDONED)
	LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011 FENCE
—₽₩- —	PRODUCED WATER LINE
പരം —രം	
—G— —	UNDERGROUND GAS LINE
	APPROXIMATE FORMER DITCH
A	CROSS SECTION TRACE
	APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
+	MONITORING WELL
+	SOIL BORING
\otimes	ABANDONED MONITORING WELL
	MONITORING WELL ASSOCIATED WITH UNRELATED BP RELEASE
+	NEW BP WELL (10/29/2018)
۲	WELLHEAD
Δ	SMA BENCHMARK
\otimes	RIG ANCHOR
NOTES:	

UTILITY LOCATIONS ARE APPROXIMATE.

MW-4 WAS A SOIL BORING ONLY (NO WELL CONSTRUCTED)

BP FORMER PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED FROM 06/24/2011 FIGURE FROM BLAGG ENGINEERING.

BP PROPOSED MONITORING WELL LOCATIONS OBTAINED FROM 4/5/2018 GROUNDWATER DELINEATION PLAN FROM BLAGG ENGINEERING.

		SCALE IN FEET						
ч	0		3	0		60		
I		REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY		
			12/12/2018	SLG	SLG	SRV		

TITLE:

1

CROSS SECTION TRACE

PROJECT:

GALLEGOS CANYON UNIT COM A #142E SAN JUAN COUNTY, NEW MEXICO

	Figure No.:
() Stantec	2





ATER Project location SAN JUAN COUNTY NEW MEXICO Cheraf Project SAN JUAN COUNTY NEW MEXICO SAN JUAN COUNTY NEW MEXICO Cheraf Project SAN JUAN COUNTY NEW MEXICO SAN JUAN COUNTY NEW MEXICO Cheraf Project SAN JUAN COUNTY NEW MEXICO SAN JUAN COUNTY NEW MEXICO SAN JUAN COUNTY NEW MEXICO SAN JUAN COUNTY SAN JUAN					,,
ATER Project location SAN JUAN COUNTY NEW MEXICO Client/Project 19371023 STATE GAS COM CALLECOS CANYON UNIT # 142E Figure No. 2.0 The Project Decision					
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ATTACHMENT L



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TABLE 2 - GROUNDWATER ELEVATION RESULTS

	Gallegos Canyon Unit #142E									
			Depth to	Depth to	LNAPL	GW Elevation				
Location	Date	тос	Water (ft.)	LNAPL (ft.)	Thickness (ft.)	(ft.)				
MW-1	03/10/97	5481.83	16.78	NR		5465.05				
MW-1	08/06/97	5481.83	14.46	NR		5467.37				
MW-1	11/05/97	5481.83	15.02	NR		5466.81				
MW-1	02/13/98	5481.83	18.18	NR		5463.65				
MW-1	05/06/98	5481.83	18.69	NR		5463.14				
MW-1	05/04/99	5481.83	17.61	NR		5464.22				
MW-1	05/25/00	5481.83	16.44	NR		5465.39				
MW-1	06/01/01	5481.83	17.08	NR		5464.75				
MW-1	05/14/02	5481.83	14.70	NR		5467.13				
MW-1	03/07/03	5481.83	15.32	ND		5466.52				
MW-1	09/17/03	5481.83	DRY	ND		5460.12				
MW-1	03/22/04	5481.83	17.38	ND		5464.45				
MW-1	03/17/05	5481.83	18.15	ND		5463.69				
MW-1	06/23/05	5481.83	14.72	ND		5467.11				
MW-1	09/26/05	5481.83	11.95	ND		5469.88				
MW-1	12/14/05	5481.83	14.67	ND		5467.16				
MW-1	01/09/06	5481.83	15.67	ND		5466.16				
MW-1	01/18/06	5481.83	15.97	ND		5465.86				
MW-1	03/28/06	5481.83	18.16	ND		5463.67				
MW-1	06/14/06	5481.83	13.08	ND		5468.75				
MW-1	06/28/07	5481.83	16.18	ND		5465.65				
MW-1	06/23/08	5481.83	15.45	ND		5466.38				
MW-1	06/02/09	5481.83	17.80	ND		5464.03				
MW-1	12/30/09	5481.83	16.82	ND		5465.01				
MW-1	01/25/10	5481.83	17.61	ND		5464.22				
MW-1	05/25/10	5481.83	18.45	ND		5463.38				
MW-1	09/24/10	5481.83	14.59	ND		5467.24				
MW-1	11/09/10	5481.83	14.86	ND		5466.97				
MW-1	02/01/11	5481.83	17.46	ND		5464.37				
MW-1	05/03/11	5481.83	19.22	ND		5462.61				
MW-1	09/27/11	5481.83	11.12	ND		5470.71				
MW-1	11/16/11	5481.83	12.75	ND		5469.08				
MW-1	02/16/12	5481.83	15.47	ND		5466.36				
MW-1	05/07/12	5481.83	16.21	ND		5465.62				
MW-1	06/07/13	5481.83	14.06	ND		5467.77				
MW-1	09/11/13	5481.83	12.61	ND		5469.22				
MW-1	12/13/13	5481.83	14.22	ND		5467.61				
MW-1	04/03/14	5481.83	17.66	ND		5464.17				
MW-1	10/25/14	5481.83	12.69	ND		5469.14				
MW-1	05/30/15	5481.83	16.29	ND		5465.54				

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TABLE 2 - GROUNDWATER ELEVATION RESULTS

	Gallegos Canyon Unit #142E									
			Depth to	Depth to	LNAPL	GW Elevation				
Location	Date	тос	Water (ft.)	LNAPL (ft.)	Thickness (ft.)	(ft.)				
MW-1	11/18/15	5481.83	14.52	ND		5467.31				
MW-1	04/18/16	5481.83	19.06	ND		5462.77				
MW-1	10/14/16	5481.83	15.54	ND		5466.29				
MW-1	06/11/17	5481.83	17.44	ND		5464.39				
MW-1	11/13/17	5481.83	14.65	ND		5467.18				
MW-1	05/17/18	5481.83	16.74	ND		5465.09				
MW-1	10/28/18	5481.83	12.31	ND		5469.52				
MW-2	12/13/01	5481.56	14.52	NR		5467.04				
MW-2	05/14/02	5481.56	14.37	NR		5467.19				
MW-2	09/17/03	5481.56	DRY	ND		5463.56				
MW-2	03/22/04	5481.56	17.06	ND		5464.50				
MW-2	03/17/05	5481.56	17.83	ND		5463.73				
MW-2	09/14/05	5481.56	11.45	ND		5470.11				
MW-2	01/09/06	5481.56	15.35	ND		5466.21				
MW-2	01/18/06	5481.56	15.65	ND		5465.91				
MW-2	06/14/06	5481.56	12.64	ND		5468.92				
MW-2	06/28/07	5481.56	16.86	ND		5464.70				
MW-2	06/23/08	5481.56	15.15	ND		5466.41				
MW-2	06/02/09	5481.56	17.84	17.42	0.42	5464.04				
MW-2	12/30/09	5481.56	16.48	16.45	0.03	5465.10				
MW-2	01/25/10	5481.56	17.45	17.27	0.18	5464.25				
MW-2	05/25/10	5481.56	18.55	18.05	0.50	5463.39				
MW-2	09/24/10	5481.56	14.25	ND		5467.31				
MW-2	11/09/10	5481.56	14.50	14.49	0.01	5467.07				
MW-2	02/01/11	5481.56	17.15	ND		5464.41				
MW-2	05/03/11	5481.56	18.91	ND		5462.65				
MW-2	09/27/11	5481.56	12.65	ND		5468.91				
MW-2	11/16/11	5481.56	12.37	ND		5469.19				
MW-2	02/16/12	5481.56	15.13	ND		5466.43				
MW-2	05/07/12	5481.56	16.91	ND		5464.65				
MW-2	06/07/13	5481.56	13.63	ND		5467.93				
MW-2	09/11/13	5481.56	12.18	ND		5469.38				
MW-2	12/13/13	5481.56	13.92	ND		5467.64				
MW-2	04/03/14	5481.56	17.42	17.31	0.11	5464.22				
MW-2	10/25/14	5481.56	12.14	ND		5469.42				
MW-2	05/30/15	5481.56	15.92	ND		5465.64				
MW-2	11/18/15	5481.56	14.26	ND		5467.30				
MW-2	04/18/16	5481.56	18.99	18.69	0.30	5462.80				
MW-2	10/14/16	5481.56	15.26	ND		5466.30				

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TABLE 2 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #142E									
			Depth to	Depth to	LNAPL	GW Elevation			
Location	Date	TOC	Water (ft.)	LNAPL (ft.)	Thickness (ft.)	(ft.)			
MW-2	06/11/17	5481.56	17.23	17.09	0.14	5464.44			
MW-2	11/13/17	5481.56	14.28	ND		5467.28			
MW-2	05/17/18	5481.56	16.43	16.39	0.04	5465.16			
MW-2	10/28/18	5481.56	11.67	ND		5469.89			
MW-3	10/25/14	5481.87	12.53	ND		5469.34			
MW-3	05/30/15	5481.87	16.32	ND		5465.55			
MW-3	11/18/15	5481.87	14.65	ND		5467.22			
MW-3	04/18/16	5481.87	19.18	ND		5462.69			
MW-3	10/14/16	5481.87	15.64	ND		5466.23			
MW-3	06/11/17	5481.87	17.57	17.40	0.17	5464.43			
MW-3	11/13/17	5481.87	14.64	ND		5467.23			
MW-3	05/17/18	5481.87	16.60	ND		5465.27			
MW-3	10/28/18	5481.87	11.93	ND		5469.94			
MW-5	10/25/14	5482.04	12.73	ND		5469.31			
MW-5	05/30/15	5482.04	16.50	ND		5465.54			
MW-5	11/18/15	5482.04	14.80	ND		5467.24			
MW-5	04/18/16	5482.04	19.20	ND		5462.84			
MW-5	10/14/16	5482.04	15.78	ND		5466.26			
MW-5	06/11/17	5482.04	17.65	ND		5464.39			
MW-5	11/13/17	5482.04	14.81	ND		5467.23			
MW-5	05/17/18	5482.04	16.95	ND		5465.09			
MW-5	10/28/18	5482.04	12.31	ND		5469.73			
MW-6	10/25/14	5481.45	12.31	ND		5469.14			
MW-6	05/30/15	5481.45	16.01	ND		5465.44			
MW-6	11/18/15	5481.45	14.36	ND		5467.09			
MW-6	04/18/16	5481.45	18.73	ND		5462.72			
MW-6	10/14/16	5481.45	15.35	ND		5466.10			
MW-6	06/11/17	5481.45	17.14	ND		5464.31			
MW-6	11/13/17	5481.45	14.39	ND		5467.06			
MW-6	05/17/18	5481.45	16.37	ND		5465.08			
MW-6	10/28/18	5481.45	11.85	ND		5469.60			
MW-7	10/25/14	5481.80	12.59	ND		5469.21			
MW-7	05/30/15	5481.80	16.32	ND		5465.48			
MW-7	11/18/15	5481.80	14.67	ND		5467.13			
MW-7	04/18/16	5481.80	19.09	ND		5462.71			
MW-7	10/14/16	5481.80	15.66	ND		5466.14			
MW-7	06/11/17	5481.80	17.44	ND		5464.36			

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #142E									
		_	Depth to	Depth to	LNAPL	GW Elevation			
Location	Date	ТОС	Water (ft.)	LNAPL (ft.)	Thickness (ft.)	(ft.)			
MW-7	11/13/17	5481.80	14.67	ND		5467.13			
MW-7	05/17/18	5481.80	16.62	ND		5465.18			
MW-7	10/28/18	5481.80	12.01	ND		5469.79			
TMW-1	01/06/06	5481.43	15.29	ND		5466.14			
TMW-1	01/09/06	5481.43	15.27	ND		5466.16			
TMW-1	01/18/06	5481.43	15.57	ND		5465.87			
TMW-1	06/23/08	5481.43	15.04	ND		5466.39			
TMW-1	12/30/09	5481.43	NA	ND		NA			
TMW-1	01/25/10	5481.43	17.23	ND		5464.20			
TMW-1	05/25/10	5481.43	18.70	17.80		5463.41			
TMW-1	09/24/10	5481.43	14.45	14.10		5467.25			
TMW-1	11/09/10	5481.43	14.62	14.37		5467.00			
TMW-1	02/01/11	5481.43	17.45	17.00		5464.32			
TMW-1	05/03/11	5481.43	19.76	18.55		5462.58			
TMW-1	09/27/11	5481.43	12.43	12.03		5469.30			
TMW-1	11/16/11	5481.43	12.44	12.31		5469.09			
TMW-1	02/16/12	5481.43	14.25	12.03		5468.85			
TMW-1	05/07/12	5481.43	14.20	14.18		5467.25			
TMW-1	06/07/13	5481.43	13.65	ND		5467.78			
TMW-1	09/11/13	5481.43	12.14	ND		5469.29			
TMW-1	12/13/13	5481.43	13.90	ND		5467.53			
TMW-1	04/03/14	5481.43	17.36	17.25		5464.16			
	TMW-1 a	abandonec	I on Septembe	er 8, 2014, and	d replaced with MV	V-8			
MW-8	10/25/14	5481.83	12.50	ND		5469.33			
MW-8	05/30/15		16.28	ND		5465.55			
MW-8	11/18/15	5481.83	14.60	ND		5467.23			
MW-8	04/18/16	5481.83	19.11	ND		5462.72			
MW-8	10/14/16	5481.83	15.61	ND		5466.22			
MW-8	06/11/17	5481.83	18.09	17.20	0.89	5464.41			
MW-8	11/13/17	5481.83	14.63	ND		5467.20			
MW-8	05/17/18	5481.83	16.64	ND		5465.19			
MW-8	10/28/18	5481.83	11.97	ND		5469.86			

Notes:

"ft" = feet

"TOC" = Top of casing LNAPL = light non-aqueous phase liquid "ND" = LNAPL not detected

"NR" = Presence or Absence of LNAPL not recorded

ATTACHMENT M





<u>LEGEND:</u>

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ITLE:						

GROUNDWATER ELEVATION MAP MAY 17, 2018

PROJECT:

GALLEGOS CANYON UNIT COM A #142E SAN JUAN COUNTY, NEW MEXICO

Stantec Figure No.: 4


LEGEND:

	<u>JLND.</u>				
<u>—5795</u>	APPROX. GROU CONTOUR AND		-		
	ACCESS ROAD)			
	UNKNOWN LIN ABANDONED)	E (POT	ENTIAL	LY.	
	LOCATION OF REMOVED 7/19 FENCE		ER 95 B.	ARREL	UST
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۲	WELLHEAD				
Δ	SMA BENCHMA	RK			
Ø	RIG ANCHOR				
NOTES:					
	ROUNDWATER ELEVA)		
	ATER LEVEL ELEVATION			E MEAN	
	EA LEVEL) IRECTION OF APPARE	ENT GRO	UNDWAT	ER FLOW	,
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TITLE:					

GROUNDWATER ELEVATION MAP OCTOBER 28, 2018

PROJECT:

GALLEGOS CANYON UNIT COM A #142E SAN JUAN COUNTY, NEW MEXICO

Stantec Figure No.: 4

ATTACHMENT N



TABLE 1 - SOIL ANALYTICAL RESULTS

				Galleg	jos	Canyon Unit #14	12E				
Location	Date	Benzene (mg/kg)		Toluene (mg/kg)		Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	BTEX Total (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)	
NMO	CD Criteria:	10		NE		NE	NE	50	100	600	
MW-3 (16-18)	08/24/14	0.0407		0.019	J	0.0647	BDL	0.12	BDL	150	В
MW-4 (13-15)	08/25/14	1.89		BDL		2.92	17.4	22.2	46	69.5	В
MW-5 (18-20)	08/24/14	1.47		2.17		2.90	21.1	27.6	190	61.4	В
MW-6 (16-18)	08/25/14	4.75		BDL		3.51	37.3	45.6	160	62.5	В
MW-7 (18-20)	08/24/14	0.212		2.21		0.413	2.83	5.7	67	67.8	В
MW-8 (13-15)	08/24/14	0.00682	J	0.0268		BDL	BDL	0.03	BDL	64.9	В
<u>Notes:</u> J B		than the Reportin vas found in the bl	0	0	er tha	an or equal to the Me	thod Detection Limit	and the concentration	on is an appro	ximate value.	
TPH mg/kg BDL	Milligrams pe Below Detect	er kilogram tion Limit), DRO, and MRO an	d rounded to the ne	arest mg/kg.		
NE BTEX Total BTEX NMOCD Criteria	Benzene, tolu Sum of the de New Mexico	uene, ethylbenzer etectable concent Oil Conservation	ne, x tratic Divi:	ylenes ons of individu sion closure cr	al B ⁻ riteri		0 feet below bottom c	of pit to groundwate	r less than 10,	000 mg/L	



ATTACHMENT O





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ATTACHMENT P



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TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Gallegos Canyon Unit #142E								
		Benzene	Toluene	Ethylbenzene	Total Xylenes			
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)			
NMWQCC	Standards:	10	750	750	620			
W-1	03/10/97	4010	7960	213	2050			
W-1	08/06/97	1040	1310	49.4	647			
W-1	11/05/97	543	719	33.9	342			
W-1	02/13/98	343	354	27.6	394			
W-1	05/06/98	429	216	13.6	176			
W-1	05/04/99	143	20.4	7.78	63.3			
W-1	05/25/00	230	4.4	6	450			
W-1	06/01/01	130	0.5	3.5	6.1			
W-1	05/14/02	34	4.9	1	3.3			
W-1	03/07/03	270	36.8	8.3	21.1			
W-1	09/17/03	150	77	1.9	12.8			
W-1	03/22/04	1.4	<0.14	<0.029	<0.082			
W-1	03/17/05	169	1.3	2.7	6.6			
W-1	06/23/05	810	1.9	0.62	8.1			
W-1	09/26/05	232	14.9	4	15.1			
W-1	12/14/05	354	10.6	5.9	25.6			
W-1	03/28/06	362	0.37J	15	15.7			
W-1	06/14/06	210	6.5	2.3	6.1			
W-1	06/28/07	109	12.6	1.1	5.5			
W-1	06/23/08	2320	305	140	934			
W-1	06/02/09	35.3	<1	0.75J	1.4J			
W-1	12/30/09	597	10.7J	26.5	159			
W-1	11/09/10	8610	2770	348	2810			
W-1	11/16/11	229	36.2	5.3	39.3			
W-1	06/07/13	810	< 0.30	<0.20	4.3J			
W-1	09/11/13	25	<0.30	<0.20	0.39J			
W-1	12/13/13	330	<0.90	6.9	20			
W-1	04/03/14	560	<3.8	<2.0	<6.5			
W-1	10/25/14	57	<0.70	1.9	3J			
W-1	05/30/15	270	<5.0	1.6	32			
W-1	11/18/15	990	1.6	26	250			
W-1	04/18/16	22	<5.0	<1.0	<5.0			
W-1	10/14/16	520	<10	<2.0	<10			
W-1	06/11/17	190	<10	<2.0	<10			
					<10			
					<10			
					<10			
\ /					<10			
W-1 W-1 P-01(MW-1)* W-1	06/11/1 11/13/1 05/17/18 05/17/18 10/28/18	7 8 8	7 45 8 8.6 8 8.4	7 45 <1.0 8 8.6 <1.0	7 45 <1.0 <1.0 8 8.6 <1.0			

.

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

	G	allegos Ca	nyon Unit	#142E	
		Benzene	Toluene	Ethylbenzene	Total Xylenes
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NMWQC	C Standards:	10	750	750	620
MW-2	12/13/01	22000	25000	500	4300
MW-2	09/17/03	6890	4760	219	1770
MW-2	03/22/04	13000	8880	321	2850
MW-2	03/17/05	2800	1640	125	978
MW-2	09/14/05	1980	915	63.8	391
MW-2	06/14/06	2140	811	83.5	610
MW-2	06/28/07	2100	492	140	1050
MW-2	06/23/08	221	1.5J	3.9	5.8
MW-2	12/30/09	6660	6750	764	6210
MW-2	11/09/10	3900	2450	342	2660
MW-2	11/16/11	2040	1020	231	1520
MW-2	06/07/13	6000	1100	500	3800
MW-2	09/11/13	2200	470	240	1900
MW-2	12/13/13	5500	830	510	3700
MW-2	05/30/15	3300	140	570	3400
MW-2	11/18/15	4000	120	520	1500
MW-2	11/13/17	2100	77	220	1800
MW-3	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-3	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-3	11/13/17	69	7.8	6.8	160
MW-3	05/17/18	11	6.4	18	200
MW-3	10/28/18	<1.0	<1.0	<1.0	<10
MW-5	10/25/14	1.8	<0.70	0.89J	11
MW-5	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-5	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-5	04/18/16	22	<5.0	<1.0	5.9
MW-5	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-5	06/11/17	13	<5.0	1.9	15
MW-5	11/13/17	<1.0	<1.0	<1.0	<10
MW-5	05/17/18	<1.0	<1.0	<1.0	<10
MW-5	10/28/18	<1.0	<1.0	<1.0	<10
MW-5(DUP-1)*	10/28/18	<1.0	<1.0	<1.0	<10
MW-6	10/25/14	1.1	<0.70	<0.50	<1.6
MW-6	05/30/15	190	<25	<5.0	110
MW-6	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-6	04/18/16	47	<5.0	20	6.4
MW-6	10/14/16	<1.0	<5.0	<1.0	<5.0

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

	Gallegos Canyon Unit #142E									
		Benzene	Toluene	Ethylbenzene	Total Xylenes					
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)					
NMWQCO	C Standards:	10	750	750	620					
MW-6	06/11/17	2.2	<5.0	<1.0	<5.0					
MW-6	11/13/17	<1.0	<1.0	<1.0	<10					
MW-6	05/17/18	<1.0	<1.0	<1.0	<10					
MW-6	10/28/18	<1.0	<1.0	<1.0	<10					
MW-7	10/25/14	4.7	0.7J	1.7	5.7J					
MW-7	05/30/15	6.5	<5.0	<1.0	1.8J					
MW-7	11/18/15	4.3	<1.0	<1.0	<3.0					
MW-7	04/18/16	480	350	31	200					
MW-7	10/14/16	<1.0	<5.0	<1.0	<5.0					
MW-7	06/11/17	120	11	1.9	18					
MW-7	11/13/17	7.4	<1.0	<1.0	<10					
MW-7	05/17/18	15	<1.0	<1.0	<10					
MW-7	10/28/18	<1.0	<1.0	<1.0	<10					
TMW-1	12/30/09	3660	1550	520	4110					
TMW-1	11/09/10	8880	14400	956	9040					
TMW-1	11/16/11	3890	6250	420	3610					
TMW-1	06/07/13	5100	1100	190	2600					
TMW-1	09/11/13	6600	960	190	2600					
TMW-1	12/13/13	6500	2200	410	4000					
TMW	-1 abandoned	d on Septemb	er 8, 2014, a	and replaced with	MW-8					
MW-8	10/25/14	0.77J	<0.70	<0.50	<1.6					
MW-8	05/30/15	36	<5.0	3.1	19					
MW-8	11/18/15	6.6	<1.0	<1.0	<3.0					
MW-8	04/18/16	3	<5.0	<1.0	<5.0					
MW-8	10/14/16	4.8	<5.0	<1.0	<5.0					
MW-8	11/13/17	1900	65	190	1600					
MW-8	05/17/18	96	3.4	5.2	74					
MW-8	10/28/18	<1.0	<1.0	<1.0	<10					
Notes:				•						

Notes:

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

 μ g/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).

*Field Duplicate (DP) results presented immediately below primary sample result

ATTACHMENT Q





LEGEND:

<u>—5795</u>	APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
	ACCESS ROAD
	UNKNOWN LINE (POTENTIALLY ABANDONED)
	LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011 FENCE
	-
	PRODUCED WATER LINE
—uce— —ucc	UNDERGROUND CABLE
—G— —	UNDERGROUND GAS LINE
	APPROXIMATE FORMER DITCH
	APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
+	MONITORING WELL
À	MONITORING WELL WITH MEASUREABLE FREE PRODUCT
\otimes	ABANDONED MONITORING WELL
\	MONITORING WELL ASSOCIATED WITH UNRELATED BP RELEASE
\$	NEW BP WELL (10/29/2018)
۲	WELLHEAD
۵	SMA BENCHMARK
Ø	RIG ANCHOR
MW-4 WAS A SO BP FORMER PIT FROM 06/24/2011 EXPLANATION C RESULTS IN BOI EXCESS OF THE NS = NOT SAMPJ µg/L = MICROGR	
ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene E = Ethylbenze	10
X = Total Xylen	es 620 μg/L
	SCALE IN FEET
μ	
	0 30 60
•	REVISION DATE DESIGN BY DRAWN BY REVIEWED BY 12/12/2019 SLG SLG SRV
TITLE:	
GROU	NDWATER ANALYTICAL RESULTS MAY 17, 2018
PROJECT:	
-	EGOS CANYON UNIT COM A #142E
JAI	<i>N JUAN COUNTY, NEW MEXICO</i> Figure No.:
	Stantec 6

•



LEGEND:

<u>—5795</u>	APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
	ACCESS ROAD
	UNKNOWN LINE (POTENTIALLY ABANDONED)
	LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011 FENCE
—P₩ —	PRODUCED WATER LINE
—uæ— —ua	UNDERGROUND CABLE
—G— —	UNDERGROUND GAS LINE
	APPROXIMATE FORMER DITCH
	APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
+	MONITORING WELL
\otimes	ABANDONED MONITORING WELL
+	MONITORING WELL ASSOCIATED WITH UNRELATED BP RELEASE
\$	NEW BP WELL (10/29/2018)
۲	WELLHEAD
Δ	SMA BENCHMARK
Ø	RIG ANCHOR
MW-4 WAS A SC BP FORMER PIT FROM 06/24/201 EXPLANATION (RESULTS IN BO EXCESS OF THE NS = NOT SAMP µg/L = MICROGF <1 = BELOW ME ANALYTE B = Benzene	XAMS PER LITER THOD DETECTION LIMIT <u>NMWQCC STANDARDS</u> 10 μg/L
T = Toluene E = Ethylbenze	
X = Total Xylen	les 620 μg/L
	SCALE IN FEET
h	
	REVISION DATE DESIGN BY DRAWN BY REVIEWED BY
TITLE:	12/12/2018 SLG SLG SRV
GROU	NDWATER ANALYTICAL RESULTS OCTOBER 28, 2018
PROJECT:	
	EGOS CANYON UNIT COM A #142E N JUAN COUNTY, NEW MEXICO
0	Stantec 7

ATTACHMENT R



Received by OCD: 3/30/2022 12:17:07 PM



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 400-154073-1

Client Project/Site: ElPaso CGP Company, LLC - GCU 142E

For:

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

Attn: Ms. Sarah Gardner

Carolon webb

Authorized for release by: 5/31/2018 4:23:40 PM

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

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

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

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

LINKS Review your project results through TOTOL ACCESS Have a Question?

Visit us at: www.testamericainc.com

Released to Imaging: 4/30/2024 2:28:37 PM

Expert

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Glossary Abbreviation

¤

%R

CFL

CNF

DER

Definitions/Glossary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Percent Recovery

Contains Free Liquid

Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference)

TestAmerica Job ID: 400-154073-1 3 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 5

Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEO	Toxicity Equivalent Quotient (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Job ID: 400-154073-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-154073-1

Comments

No additional comments.

Receipt

The samples were received on 5/22/2018 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

GC/MS VOA

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

VOA Prep

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

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Detection Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E TestAmerica Job ID: 400-154073-1

Client Sample ID: MW-1					Lab Sar	npie ID: 4	00-154073-
Analyte		Qualifier	RL	Unit	Dil Fac	Method	Prep Type
Benzene	8.6		1.0	ug/L	1	8260C	Total/NA
Client Sample ID: MW-3					Lab Sar	mple ID: 4	00-154073-
 Analyte	Result	Qualifier	RL	Unit	Dil Fac	Method	Prep Type
Benzene	11		1.0	ug/L	1	8260C	Total/NA
Toluene	6.4		1.0	ug/L	1	8260C	Total/NA
Ethylbenzene	18		1.0	ug/L	1	8260C	Total/NA
Xylenes, Total	200		10	ug/L	1	8260C	Total/NA
Client Sample ID: MW-5					Lab Sar	mple ID: 4	00-154073-
No Detections.							
Client Sample ID: MW-6					Lab Sar	nple ID: 4	00-154073-
No Detections.							
No Detections.					Lab Sar	nple ID: 4	00-154073-
	Result	Qualifier	RL	Unit	Lab Sar	•	00-154073- Prep Type
No Detections.	Result 15	Qualifier	RL 1.0	Unit ug/L		•	
No Detections.		Qualifier			Dil Fac D	9 Method 8260C	Prep Type Total/NA
No Detections. Client Sample ID: MW-7 Analyte Benzene	15	Qualifier			Dil Fac D	2 Method 8260C mple ID: 4	Prep Type Total/NA
No Detections. Client Sample ID: MW-7 Analyte Benzene Client Sample ID: MW-8	15		1.0	ug/L	<u>Dil Fac</u>	2 Method 8260C mple ID: 4	Total/NA
No Detections. Client Sample ID: MW-7 Analyte Benzene Client Sample ID: MW-8 Analyte	15 Result		1.0 RL	Unit	Dil Fac 1 Lab Sar Dil Fac	• Method • 8260C • mple ID: 4 • Method	Prep Type Total/NA 00-154073- Prep Type
No Detections. Client Sample ID: MW-7 Analyte Benzene Client Sample ID: MW-8 Analyte Benzene	15 Result 96		1.0 RL 1.0	Unit ug/L	Dil Fac Lab Sar Dil Fac	 Method 8260C mple ID: 4 Method 8260C 	Prep Type Total/NA 00-154073- Prep Type Total/NA
No Detections. Client Sample ID: MW-7 Analyte Benzene Client Sample ID: MW-8 Analyte Benzene Toluene	15 Result 96 3.4		1.0 RL 1.0 1.0	Unit ug/L ug/L ug/L	<u>Dil Fac</u> 1 Lab Sar <u>Dil Fac</u> 1 1	 Method 8260C mple ID: 4 Method 8260C 8260C 8260C 	Prep Type Total/NA 00-154073- Prep Type Total/NA Total/NA
No Detections. Client Sample ID: MW-7 Analyte Benzene Client Sample ID: MW-8 Analyte Benzene Toluene Ethylbenzene	15 Result 96 3.4 5.2		1.0 RL 1.0 1.0 1.0 1.0 1.0	Unit ug/L ug/L ug/L ug/L	<u>Dil Fac</u> 1 Lab Sar 11 1 1 1	Method 8260C mple ID: 4 8260C 8260C 8260C 8260C 8260C 8260C 8260C 8260C 8260C	Prep Type Total/NA 00-154073- Prep Type Total/NA Total/NA Total/NA Total/NA
No Detections. Client Sample ID: MW-7 Analyte Benzene Client Sample ID: MW-8 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	15 Result 96 3.4 5.2 74		1.0 RL 1.0 1.0 1.0 1.0 1.0	Unit ug/L ug/L ug/L ug/L	<u>Dil Fac</u> 1 Lab Sar 11 1 1 1	Method 8260C mple ID: 4 Method 8260C 8260C	Prep Type Total/NA 00-154073- Prep Type Total/NA Total/NA Total/NA Total/NA
No Detections. Client Sample ID: MW-7 Analyte Benzene Client Sample ID: MW-8 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Client Sample ID: DP-01	15 Result 96 3.4 5.2 74	Qualifier	1.0 RL 1.0 1.0 1.0 1.0 1.0	Unit ug/L ug/L ug/L ug/L ug/L	Dil Fac Dil Fa	Method 8260C mple ID: 4 Method 8260C 8260C	Prep Type Total/NA 00-154073- Prep Type Total/NA Total/NA Total/NA Total/NA 00-154073-

No Detections.

This Detection Summary does not include radiochemical test results.

6

TestAmerica Job ID: 400-154073-1

Sample Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Lab Sample ID **Client Sample ID** Matrix Collected Received 400-154073-1 MW-1 Water 05/17/18 16:50 05/22/18 09:19 400-154073-2 MW-3 Water 05/17/18 17:00 05/22/18 09:19 400-154073-3 MW-5 Water 05/17/18 16:30 05/22/18 09:19 400-154073-4 MW-6 Water 05/17/18 16:35 05/22/18 09:19 400-154073-5 MW-7 Water 05/17/18 16:45 05/22/18 09:19 400-154073-6 MW-8 05/17/18 17:05 05/22/18 09:19 Water 400-154073-7 DP-01 Water 05/17/18 00:00 05/22/18 09:19 05/17/18 16:20 05/22/18 09:19 400-154073-8 TB (5/17/18) Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: MW-1 Date Collected: 05/17/18 16:50 Date Received: 05/22/18 09:19

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.6		1.0	ug/L			05/28/18 14:14	1
Toluene	<1.0		1.0	ug/L			05/28/18 14:14	1
Ethylbenzene	<1.0		1.0	ug/L			05/28/18 14:14	1
Xylenes, Total	<10		10	ug/L			05/28/18 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118				05/28/18 14:14	1
Dibromofluoromethane	103		81 - 121				05/28/18 14:14	1
1,2-Dichloroethane-d4 (Surr)	84		67 - 134				05/28/18 14.14	1

TestAmerica Job ID: 400-154073-1

Lab Sample ID: 400-154073-1

Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: MW-3 Date Collected: 05/17/18 17:00 Date Received: 05/22/18 09:19

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		1.0	ug/L			05/28/18 14:40	1
Toluene	6.4		1.0	ug/L			05/28/18 14:40	1
Ethylbenzene	18		1.0	ug/L			05/28/18 14:40	1
Xylenes, Total	200		10	ug/L			05/28/18 14:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		78 - 118				05/28/18 14:40	1
Dibromofluoromethane	100		81 - 121				05/28/18 14:40	1
1.2-Dichloroethane-d4 (Surr)	80		67 - 134				05/28/18 14:40	1

TestAmerica Job ID: 400-154073-1

Lab Sample ID: 400-154073-2

Matrix: Water

5

7

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: MW-5 Date Collected: 05/17/18 16:30 Date Received: 05/22/18 09:19

1,2-Dichloroethane-d4 (Surr)

Method: 8260C - Volatile	Organic Compounds by G	C/MS					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			05/28/18 15:05	1
Toluene	<1.0	1.0	ug/L			05/28/18 15:05	1
Ethylbenzene	<1.0	1.0	ug/L			05/28/18 15:05	1
Xylenes, Total	<10	10	ug/L			05/28/18 15:05	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93	78 - 118				05/28/18 15:05	1
Dibromofluoromethane	103	81 - 121				05/28/18 15:05	1

67 - 134

85

Lab Sample ID: 400-154073-3

05/28/18 15:05

1

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Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: MW-6 Date Collected: 05/17/18 16:35 Date Received: 05/22/18 09:19

Method: 8260C - Volatile O	rganic Compou	unds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			05/28/18 15:31	1
Toluene	<1.0		1.0	ug/L			05/28/18 15:31	1
Ethylbenzene	<1.0		1.0	ug/L			05/28/18 15:31	1
Xylenes, Total	<10		10	ug/L			05/28/18 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				05/28/18 15:31	1
Dibromofluoromethane	101		81 - 121				05/28/18 15:31	1
1,2-Dichloroethane-d4 (Surr)	83		67 - 134				05/28/18 15:31	1

Matrix: Water

5

7

TestAmerica Job ID: 400-154073-1

Lab Sample ID: 400-154073-4

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: MW-7 Date Collected: 05/17/18 16:45 Date Received: 05/22/18 09:19

Method: 8260C - Volatile C	rganic Compo	unds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15		1.0	ug/L			05/28/18 15:56	1
Toluene	<1.0		1.0	ug/L			05/28/18 15:56	1
Ethylbenzene	<1.0		1.0	ug/L			05/28/18 15:56	1
Xylenes, Total	<10		10	ug/L			05/28/18 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		78 - 118				05/28/18 15:56	1
Dibromofluoromethane	98		81 - 121				05/28/18 15:56	1
1,2-Dichloroethane-d4 (Surr)	81		67 - 134				05/28/18 15:56	1

TestAmerica Job ID: 400-154073-1

Lab Sample ID: 400-154073-5

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Matrix: Water

5 7

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: MW-8 Date Collected: 05/17/18 17:05 Date Received: 05/22/18 09:19

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	96		1.0	ug/L			05/28/18 16:22	1
Toluene	3.4		1.0	ug/L			05/28/18 16:22	1
Ethylbenzene	5.2		1.0	ug/L			05/28/18 16:22	1
Xylenes, Total	74		10	ug/L			05/28/18 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118				05/28/18 16:22	1
Dibromofluoromethane	98		81 - 121				05/28/18 16:22	1
1,2-Dichloroethane-d4 (Surr)	81		67 - 134				05/28/18 16:22	1

Lab Sample ID: 400-154073-6

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Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: DP-01 Date Collected: 05/17/18 00:00 Date Received: 05/22/18 09:19

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.4		1.0	ug/L			05/28/18 16:47	1
Toluene	<1.0		1.0	ug/L			05/28/18 16:47	1
Ethylbenzene	<1.0		1.0	ug/L			05/28/18 16:47	1
Xylenes, Total	<10		10	ug/L			05/28/18 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118		-		05/28/18 16:47	1
Dibromofluoromethane	100		81 - 121				05/28/18 16:47	1
1,2-Dichloroethane-d4 (Surr)	82		67 - 134				05/28/18 16:47	1

TestAmerica Job ID: 400-154073-1

Lab Sample ID: 400-154073-7

Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Client Sample ID: TB (5/17/18) Date Collected: 05/17/18 16:20 Date Received: 05/22/18 09:19

Method: 8260C - Volatile O	rganic Compou	inds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			05/28/18 11:41	1
Toluene	<1.0		1.0	ug/L			05/28/18 11:41	1
Ethylbenzene	<1.0		1.0	ug/L			05/28/18 11:41	1
Xylenes, Total	<10		10	ug/L			05/28/18 11:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		78 - 118		-		05/28/18 11:41	1
Dibromofluoromethane	100		81 - 121				05/28/18 11:41	1
1,2-Dichloroethane-d4 (Surr)	82		67 - 134				05/28/18 11:41	1

Lab Sample ID: 400-154073-8

TestAmerica Job ID: 400-154073-1

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Matrix: Water

QC Association Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E TestAmerica Job ID: 400-154073-1

Analysis Batch: 399152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154073-1	MW-1	Total/NA	Water	8260C	
400-154073-2	MW-3	Total/NA	Water	8260C	
400-154073-3	MW-5	Total/NA	Water	8260C	
400-154073-4	MW-6	Total/NA	Water	8260C	
400-154073-5	MW-7	Total/NA	Water	8260C	
400-154073-6	MW-8	Total/NA	Water	8260C	
400-154073-7	DP-01	Total/NA	Water	8260C	
400-154073-8	TB (5/17/18)	Total/NA	Water	8260C	
MB 400-399152/4	Method Blank	Total/NA	Water	8260C	
LCS 400-399152/1002	Lab Control Sample	Total/NA	Water	8260C	
400-154149-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-154149-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E TestAmerica Job ID: 400-154073-1

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

Lab Sample ID: MB 400-39 Matrix: Water Analysis Batch: 399152	9152/4					Client Sam	ple ID: Method Prep Type: To	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			05/28/18 09:34	1
Toluene	<1.0		1.0	ug/L			05/28/18 09:34	1
Ethylbenzene	<1.0		1.0	ug/L			05/28/18 09:34	1
Xylenes, Total	<10		10	ug/L			05/28/18 09:34	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118				05/28/18 09:34	1
Dibromofluoromethane	99		81 - 121				05/28/18 09:34	1
1,2-Dichloroethane-d4 (Surr)	80		67 - 134				05/28/18 09:34	1

Lab Sample ID: LCS 400-399152/1002 Matrix: Water Analysis Batch: 399152

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	46.5		ug/L		93	70 - 130	
Toluene	50.0	43.1		ug/L		86	70 - 130	
Ethylbenzene	50.0	42.7		ug/L		85	70 - 130	
Xylenes, Total	100	85.6		ug/L		86	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	102		81 - 121
1,2-Dichloroethane-d4 (Surr)	81		67 - 134

Lab Sample ID: 400-154149-A-1 MS Matrix: Water Analysis Batch: 399152

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<1.0		50.0	45.4		ug/L		91	56 - 142	
Toluene	<1.0		50.0	40.0		ug/L		80	65 ₋ 130	
Ethylbenzene	<1.0		50.0	39.3		ug/L		79	58 ₋ 131	
Xylenes, Total	<10		100	78.8		ug/L		79	59 ₋ 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	91		78 - 118
Dibromofluoromethane	102		81 - 121
1,2-Dichloroethane-d4 (Surr)	80		67 - 134

Lab Sample ID: 400-154149-A-1 MSD **Matrix: Water** Analysis Batch: 399152

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<1.0		50.0	42.9		ug/L		86	56 - 142	6	30
Toluene	<1.0		50.0	37.1		ug/L		74	65 - 130	8	30

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

9

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

Client Sample ID: Matrix Spike Duplicate

Released to Imaging: 4/30/2024 2:28:37 PM

QC Sample Results

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E TestAmerica Job ID: 400-154073-1

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

Lab Sample ID: 400-15414 Matrix: Water	49-A-1 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty		
Analysis Batch: 399152	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	•	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	<1.0		50.0	34.6		ug/L		69	58 - 131	13	30
Xylenes, Total	<10		100	69.5		ug/L		70	59 ₋ 130	12	30
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	90		78 - 118								
Dibromofluoromethane	103		81 - 121								
1,2-Dichloroethane-d4 (Surr)	80		67 - 134								

5 6

7 8 9 Lab Chronicle

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E TestAmerica Job ID: 400-154073-1

Prep Type Batch Batch Method Run Dil Initial Final Batch Prepared Prepared TotalNA Analysis 8280C 1 5 mL 399152 05/28/18 14:14 CAR TAL Cilient Sample ID: MW-3 Lab Sample ID: Method Matrix: Analysis Batch Batch Batch Matrix: Prep Type Type Batch Batch Batch Run Factor Amount Analysis Batch Prepared Matrix: TotalNA Analysis 8260C Run Factor Amount SimL Sign152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP 1 5 mL Sign152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP 1 5 mL Sign152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP 1 5 mL 5 mL 399152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP 1 5 mL 5 mL 399152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP 1 5 mL 5 mL 399152	Date Collecter		16:50					La	b Sample II		154073- trix: Wate
Instrument ID: CH_WASP Lilent Sample ID: MW-3 Lab Sample ID: 400-1540 Prep Type Batch Batch Run Final Batch Matrix: Analysis 8260C 1 5 mL SmL 399152 05/28/18 14:40 CAR TAL Lab Sample ID: MW-5 Lab Sample ID: 400-1540 Mumber or Analyzed Analyst Lab Date Collected: 05/17/18 16:30 Lab Sample ID: 400-1540 Matrix: Matrix: Date Collected: 05/17/18 16:30 Batch Prep Type Method Run Final Batch Prepared Analysis Batch Batch Batch Run Final SmL SmE Off/2018 0:10 Prep Type Type Method Run Final SmL SmE Off/2018 0:10 Matrix: Client Sample ID: MW-6 Run Final Mount Amount Mumber or Analyzed Analyst Lab Client Sample ID: MW-6 Run Factor Amount Amount Mumber or Analyzed Analyst Lab	-	Batch	Batch	Run						Analyst	Lab
Batc Received: 05/17/18 17:00 Matrix: Prep Type Batch Batch Run Factor Amount Final Batch Prepared or Analyzed Analyst Lab Instrument ID: CH_WASP 1 5 mL 5 mL 399152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP 1 5 mL 5 mL 399152 05/28/18 14:40 CAR TAL Iten Collected: 05/17/18 16:30 Matrix:					1	5 mL	5 mL	399152	05/28/18 14:14	CAR	TAL PEN
Batch Batch Batch Run Dil Initial Final Batch Prepared Or Analyzed Analysis Lab Instrument ID: CH_WASP 1 5 mL 5 mL 39152 05/28/18 14:40 CAR TAL Client Sample ID: MW-5 Lab Sample ID: Mumber or Analyzed Analysis Lab Client Sample ID: MW-5 Method Run Factor Amount Amount Matrix: Prep Type Batch Batch Batch Matrix: Matrix: Matrix: Total/NA Analysis 8260C 1 5 mL 5 mL 39152 05/28/18 15:05 CAR TAL Prep Type Type Method Run Factor Amount Amount Number Or Analyzed Analyst Lab Client Sample ID: MW-6 Run Factor Amount SmL SmL SmL Smutrix: Matrix: Client Sample ID: MW-6 Method Run Factor Amount SmL Smutrix: Smutrix:	lient Sam	ple ID: MV	V-3					La	b Sample II	D: 400-	154073-
Prep Type Type Wethod Run Factor Amount Amount Number or Analyzed Analyzet Lab TotalNA Analysis B260C 1 5 mL 5 mL 399152 05/28/18 14:40 CAR TAL Ilient Sample ID: MW-5 Lab Sample ID: 400-1540 Matrix : ate Collected: 05/17/18 16:30 Matrix : Matrix : ate Received: 05/22/18 09:19 Batch Batch Batch Run Factor Amount Amount Number or Analyzed Analyst Lab Prep Type Type Method Run Dil Initial Final Batch Prepared Number or Analyzed Analyst Lab TotalNA Analysis 8260C 1 5 mL 5 mL 399152 05/28/18 15:05 CAR TAL Collected: 05/17/18 16:35 Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep Type Type Method Run Factor Amount Amount String 16 (10, 10, 10, 10, 10, 10, 10, 10, 10, 10,										Ma	trix: Wate
Total/NA Analysis 8260C 1 5 mL 5 mL 399152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP 1 5 mL 5 mL 399152 05/28/18 14:40 CAR TAL Instrument ID: CH_WASP Lab Sample ID: MW-5 Matrix: Matrix: ate Collected: 05/12/18 16:30 Matrix:	Pron Type			Pun						Analyst	Lab
Matrix : Matrix : ate Collected: 05/12/18 109:19 Matrix : Prep Type Type Matrix : Total/NA Analysis Batch Batch Prep Type Method Colspan="6">Colspan="6">Analyse Lab Colspan="6">Colspan="6">Batch Batch Batch Batch Batch Batch Batch Colspan="6">Colspan="6">Prep Type Prep Type Prep Type Prep Type Prep Type Method		Analysis	8260C						-	•	TAL PEN
Batch Batch Batch Run Dil Initial Final Batch Prepared Or Analyzed Analysi Lab Total/NA Analysis 8260C 1 5mL 5mL 5mL 399152 05/28/18 15:05 CAR TAL Silient Sample ID: MW-6 Lab Sample ID: 400-1540 Matrix:	lient Sam	ple ID: MV	V-5					La	b Sample II	D: 400-	154073-
Prep TypeTypeMethod AnalysisRunFactorAmount 1Amount 5 mLNumber 									-	Ma	trix: Wate
Total/NA Analysis 8260C 1 5 mL 399152 05/28/18 15:05 CAR TAL Instrument ID: CH_WASP 1 5 mL 399152 05/28/18 15:05 CAR TAL Client Sample ID: MW-6 Lab Sample ID: 400-1540 Matrix: Matrix: Matrix: rate Received: 05/22/18 09:19 Batch Batch Batch Run Final Amount Amount Number or Analyzed Analysis Lab Prep Type Type Method Run 1 5 mL 5 mL 399152 05/28/18 15:31 CAR TAL Prep Type Type Method Run 1 5 mL 5 mL 399152 05/28/18 15:31 CAR TAL Client Sample ID: MW-7 Lab Sample ID: 400-1540 Matrix: 1 5 mL 5 mL 399152 05/28/18 15:56 Analysis Lab Prep Type Type Method Run Final Amount 5 mL 5 mL 399152 05/28/18 15:56 CAR TAL Prep Type Type Metho	Prep Type			Run					•	Analyst	Lab
Matrix: Matrit: Matri		•••							•	-	TAL PEN
Date Collected: 05/17/18 16:35 Matrix: Date Received: 05/22/18 09:19 Matrix: Matrix: Prep Type Type Method Run Factor Amount Amount Batch Prepared Analyst Lab Total/NA Analysis 8260C 1 5 mL 5 mL 399152 05/28/18 15:31 CAR TAL Client Sample ID: MW-7 CH_WASP Lab Sample ID: 400-1540 Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: CAR TAL Client Sample ID: MW-7 CH_WASP Lab Sample ID: 400-1540 Matrix: Matrix: </td <td></td> <td>Instrume</td> <td>nt ID: CH_WASP</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Instrume	nt ID: CH_WASP								
Prep TypeTypeMethod 8260C Instrument ID: CH_WASPRunFactor 1Amount 5 mLAmount 5 mLNumber 399152or Analyzed 05/28/18 15:31Analyst CARLab TALClient Sample ID: MW-7 Date Collected: 05/17/18 16:45 Date Received: 05/22/18 09:19Batch AnalysisBatch 8260C Instrument ID: CH_WASPDil FactorInitial Amount AmountFinal SmLBatch Number Or Analyzed O5/28/18 15:31Analyst CARLab TALPrep TypeType AnalysisBatch 8260C Instrument ID: CH_WASPRun FactorDil Factor Amount SmLFinal SmLBatch Number Or Analyzed O5/28/18 15:56Analyst CARLab TALPrep Type Total/NABatch AnalysisBatch 8260C Instrument ID: CH_WASPRun FactorDil Factor Amount SmLFinal SmLBatch Number O5/28/18 15:56Analyst CARLab TALClient Sample ID: MW-8 Date Collected: 05/17/18 17:05 Date Received: 05/22/18 09:19Dil InitialFinal Final BatchBatchDil InitialFinal Final BatchBatchPrepared	lient Sam							la	h Sample II	ר. 400-	154073.
Total/NA Analysis 8260C 1 5 mL 5 mL 399152 05/28/18 15:31 CAR TAL Instrument ID: CH_WASP 1 5 mL 399152 05/28/18 15:31 CAR TAL Client Sample ID: MW-7 Lab Sample ID: 400-1540 Matrix: Matrix: </th <th>Date Collecte</th> <th>ple ID: MV d: 05/17/18 [,]</th> <th>V-6 16:35</th> <th></th> <th></th> <th></th> <th></th> <th>La</th> <th>b Sample II</th> <th></th> <th>154073- trix: Wate</th>	Date Collecte	p le ID: MV d: 05/17/18 [,]	V-6 16:35					La	b Sample II		1 54073- trix: Wate
Instrument ID: CH_WASP Lab Sample ID: MW-7 Lab Sample ID: 400-1540 Method Diate Collected: 05/17/18 16:45 Diate Collected: 05/17/18 16:45 Matrix: 1 Diate Collected: 05/17/18 16:45 Matrix: 1 Diate Collected: 05/22/18 09:19 Diate Received: 05/22/18 09:19 Prep Type Type Method Run Diate Col Matrix: 1 Total/NA Total/NA Enter Method Sml Batch Prep Type Type Method Run Diate Factor Amount Sml Batch Prep Type Type Method Sml Batch Prep Type Analysis Batch Batch Method Factor Amount Sml Sml Dispan= 205/28/18 15:56 Colspa= 205/28/18 15:56											

TestAmerica Pensacola

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Lab Chronicle

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E TestAmerica Job ID: 400-154073-1

Initial	Final				
	i inai	Batch	Prepared		
Amount	Amount	Number	or Analyzed	Analyst	Lab
5 mL	5 mL	399152	05/28/18 16:47	CAR	TAL PEN
Initial	Final	Batch	Prepared		
Amount	Amount	Number	or Analyzed	Analyst	Lab
	F	300152	05/28/18 11.41	CAR	TAL PEN
5 mL	5 ML	333132	00/20/10 11.41		
	Amount	Amount Amount	Amount Amount Number	Amount Amount Number or Analyzed	Amount Amount Number or Analyzed Analyst

Authority

Alabama

ANAB

Arizona

California

Florida

Georgia

Illinois

lowa

Kansas

Louisiana

Maryland

Michigan

New Jersey

Oklahoma

Pennsylvania

Rhode Island

Tennessee

Washington

USDA

Virginia

South Carolina

Kentucky (UST)

Kentucky (WW)

Louisiana (DW)

Massachusetts

North Carolina (WW/SW)

Arkansas DEQ

Accreditation/Certification Summary

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EPA Region

Identification Number

40150

L2471

AZ0710

88-0689

E81010

200041

E-10253

98030

30976

233

9912

FL006

314

9810

96026

68-00467

LAO00307

TN02907

460166

C915

P330-16-00172

LA170005

M-FL094

2510

N/A

367

53

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

Program

State Program

ISO/IEC 17025

State Program

ELAP

NELAP

NELAP

NELAP

NELAP

NELAP

NELAP

NELAP

Federal

NELAP

Laboratory: TestAmerica Pensacola

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

Expiration Date

06-30-18

02-22-20

01-12-19

09-01-18

06-30-18

06-30-18

06-30-18

10-09-18

08-01-18

10-31-18

06-30-18

12-31-18

06-30-18

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06-30-18

12-31-18

08-31-18

01-31-19

12-30-18

06-30-18

06-30-18

05-24-19

06-14-18

05-15-19

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	1
0-154073-1	
	5
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	9
	11
	13

Method Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU 142E

TestAmerica Job ID: 400-154073-1

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

Protocol References:

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

Laboratory References:

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

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Open International Analysis Requested Analys	Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Client Contact Ms. Sarah Gardner	29127		tamericainc.com	Page: Page 1 of 1
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		State, Zip: CO, 80202	S	K		
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Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Login Number: 154073 List Number: 1 Creator: Perez, Trina M

Login Number: 154073 List Number: 1		List Source: TestAmerica Pensacola	5
Creator: Perez, Trina M			
Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> <td></td>	N/A		
The cooler's custody seal, if present, is intact.	True		
Sample custody seals, if present, are intact.	N/A		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True	0.3°C IR-7	
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		13
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		14
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		

List Source: TestAmerica Pensacola

Received by OCD: 3/30/2022 12:17:07 PM



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 400-161292-1

Client Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

For:

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

Attn: Ms. Sarah Gardner

Carolon webb

Authorized for release by: 11/5/2018 12:56:13 PM

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

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

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

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

www.testamericainc.com
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2

Definitions/Glossary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

TestAmerica Job ID: 400-161292-1

3

Glossary	

Abbreviation	These commonly used abbreviations may or may not be present in this report.	Δ
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	5
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	13
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)	
TEO	Taviaity Fruityalant Oustiant (Diavin)	

TEQ Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Job ID: 400-161292-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-161292-1

Comments

No additional comments.

Receipt

The samples were received on 10/30/2018 9:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

GC/MS VOA

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

VOA Prep

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

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Detection Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E TestAmerica Job ID: 400-161292-1

Client Sample ID: MW-1					Lab Sample ID: 4	00-161292-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Ргер Туре
Benzene	1.5		1.0	ug/L	1 8260C	Total/NA
Client Sample ID: MW-3					Lab Sample ID: 4	00-161292-3
No Detections.						
Client Sample ID: MW-5					Lab Sample ID: 4	00-161292-4
No Detections.						
Client Sample ID: MW-6					Lab Sample ID: 4	00-161292-5
No Detections.						
Client Sample ID: MW-7					Lab Sample ID: 4	00-161292-6
No Detections.						
Client Sample ID: MW-8					Lab Sample ID: 4	00-161292-7
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
Benzene	4.0		1.0	ug/L	1 8260C	Total/NA
Client Sample ID: DUP-01					Lab Sample ID: 4	00-161292-8
No Detections.						
Client Sample ID: TB-01					Lab Sample ID: 4	00-161292-9
No Detections						

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Job ID: 400-161292-1

Sample Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

ab Sample ID	Client Sample ID	Matrix	Collected	Received	
00-161292-1	MW-1	Water	10/28/18 13:50	10/30/18 09:38	
00-161292-3	MW-3	Water	10/28/18 14:00	10/30/18 09:38	
00-161292-4	MW-5	Water	10/28/18 13:30	10/30/18 09:38	
00-161292-5	MW-6	Water	10/28/18 13:45	10/30/18 09:38	
00-161292-6	MW-7	Water	10/28/18 14:10	10/30/18 09:38	6
00-161292-7	MW-8	Water	10/28/18 14:20	10/30/18 09:38	
00-161292-8	DUP-01	Water	10/28/18 13:25	10/30/18 09:38	
00-161292-9	TB-01	Water	10/28/18 13:20	10/30/18 09:38	

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: MW-1 Date Collected: 10/28/18 13:50 Date Received: 10/30/18 09:38

Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.5	1.0	ug/L			11/03/18 15:23	1
Toluene	<1.0	1.0	ug/L			11/03/18 15:23	1
Ethylbenzene	<1.0	1.0	ug/L			11/03/18 15:23	1
Xylenes, Total	<10	10	ug/L			11/03/18 15:23	1
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108	78 - 118				11/03/18 15:23	1
Dibromofluoromethane	91	81 - 121				11/03/18 15:23	1
1,2-Dichloroethane-d4 (Surr)	106	67 - 134				11/03/18 15:23	1

TestAmerica Job ID: 400-161292-1

Lab Sample ID: 400-161292-1

Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: MW-3 Date Collected: 10/28/18 14:00 Date Received: 10/30/18 09:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 15:49	1
Toluene	<1.0		1.0	ug/L			11/03/18 15:49	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 15:49	1
Xylenes, Total	<10		10	ug/L			11/03/18 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118				11/03/18 15:49	1
Dibromofluoromethane	92		81 - 121				11/03/18 15:49	1
1,2-Dichloroethane-d4 (Surr)	108		67 - 134				11/03/18 15:49	1

Lab Sample ID: 400-161292-3

Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: MW-5 Date Collected: 10/28/18 13:30 Date Received: 10/30/18 09:38

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 13:21	1
Toluene	<1.0		1.0	ug/L			11/03/18 13:21	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 13:21	1
Xylenes, Total	<10		10	ug/L			11/03/18 13:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene			78 - 118		-		11/03/18 13:21	1
Dibromofluoromethane	89		81 - 121				11/03/18 13:21	1
Toluene-d8 (Surr)	102		80 - 120				11/03/18 13:21	1
1,2-Dichloroethane-d4 (Surr)	105		67 - 134				11/03/18 13:21	1

TestAmerica Job ID: 400-161292-1

Lab Sample ID: 400-161292-4

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Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: MW-6 Date Collected: 10/28/18 13:45 Date Received: 10/30/18 09:38

Method: 8260C - Volatile O	rganic Compounds	s by GC/MS					
Analyte	Result Qua	-	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			11/03/18 16:13	1
Toluene	<1.0	1.0	ug/L			11/03/18 16:13	1
Ethylbenzene	<1.0	1.0	ug/L			11/03/18 16:13	1
Xylenes, Total	<10	10	ug/L			11/03/18 16:13	1
Surrogate	%Recovery Qua	alifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109	78 - 118		-		11/03/18 16:13	1
Dibromofluoromethane	90	81 - 121				11/03/18 16:13	1
1,2-Dichloroethane-d4 (Surr)	106	67 - 134				11/03/18 16:13	1

TestAmerica Pensacola

Matrix: Water

TestAmerica Job ID: 400-161292-1

Lab Sample ID: 400-161292-5

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: MW-7 Date Collected: 10/28/18 14:10 Date Received: 10/30/18 09:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 16:38	1
Toluene	<1.0		1.0	ug/L			11/03/18 16:38	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 16:38	1
Xylenes, Total	<10		10	ug/L			11/03/18 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118		-		11/03/18 16:38	1
Dibromofluoromethane	91		81 - 121				11/03/18 16:38	1
1,2-Dichloroethane-d4 (Surr)	106		67 - 134				11/03/18 16:38	1

Lab Sample ID: 400-161292-6

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Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: MW-8 Date Collected: 10/28/18 14:20 Date Received: 10/30/18 09:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.0		1.0	ug/L			11/03/18 17:02	1
Toluene	<1.0		1.0	ug/L			11/03/18 17:02	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 17:02	1
Xylenes, Total	<10		10	ug/L			11/03/18 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		78 - 118				11/03/18 17:02	1
Dibromofluoromethane	91		81 - 121				11/03/18 17:02	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 134				11/03/18 17:02	1

TestAmerica Job ID: 400-161292-1

Lab Sample ID: 400-161292-7

Matrix: Water

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: DUP-01 Date Collected: 10/28/18 13:25 Date Received: 10/30/18 09:38

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			11/03/18 17:28	1
Toluene	<1.0	1.0	ug/L			11/03/18 17:28	1
Ethylbenzene	<1.0	1.0	ug/L			11/03/18 17:28	1
Xylenes, Total	<10	10	ug/L			11/03/18 17:28	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110	78 - 118				11/03/18 17:28	1
Dibromofluoromethane	92	81 - 121				11/03/18 17:28	1
1,2-Dichloroethane-d4 (Surr)	108	67 - 134				11/03/18 17:28	1

TestAmerica Job ID: 400-161292-1

Lab Sample ID: 400-161292-8

TestAmerica Pensacola

Matrix: Water

5 6

7

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Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: TB-01 Date Collected: 10/28/18 13:20 Date Received: 10/30/18 09:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 09:16	1
Toluene	<1.0		1.0	ug/L			11/03/18 09:16	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 09:16	1
Xylenes, Total	<10		10	ug/L			11/03/18 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		78 - 118				11/03/18 09:16	1
Dibromofluoromethane	90		81 - 121				11/03/18 09:16	1
1.2-Dichloroethane-d4 (Surr)	105		67 - 134				11/03/18 09:16	1

TestAmerica Job ID: 400-161292-1

Lab Sample ID: 400-161292-9 Matrix: Water

TestAmerica Pensacola

Released to Imaging: 4/30/2024 2:28:37 PM

QC Association Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E TestAmerica Job ID: 400-161292-1

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GC/MS VOA

Analysis Batch: 418202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-161292-1	MW-1	Total/NA	Water	8260C	
400-161292-3	MW-3	Total/NA	Water	8260C	
400-161292-4	MW-5	Total/NA	Water	8260C	
400-161292-5	MW-6	Total/NA	Water	8260C	
400-161292-6	MW-7	Total/NA	Water	8260C	
400-161292-7	MW-8	Total/NA	Water	8260C	
400-161292-8	DUP-01	Total/NA	Water	8260C	
400-161292-9	TB-01	Total/NA	Water	8260C	
MB 400-418202/4	Method Blank	Total/NA	Water	8260C	
LCS 400-418202/1002	Lab Control Sample	Total/NA	Water	8260C	
400-161287-A-10 MS	Matrix Spike	Total/NA	Water	8260C	
400-161287-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E TestAmerica Job ID: 400-161292-1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: MB 400-418 Matrix: Water Analysis Batch: 418202	3202/4					Client Sam	ple ID: Method Prep Type: To	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 07:58	1
Toluene	<1.0		1.0	ug/L			11/03/18 07:58	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 07:58	1
Xylenes, Total	<10		10	ug/L			11/03/18 07:58	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene			78 - 118				11/03/18 07:58	1
Dibromofluoromethane	92		81 - 121				11/03/18 07:58	1
Toluene-d8 (Surr)	102		80 - 120				11/03/18 07:58	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 134				11/03/18 07:58	1

Lab Sample ID: LCS 400-418202/1002 **Matrix: Water** Analysis Batch: 418202

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	- 1
Benzene	50.0	42.9		ug/L		86	70 - 130	_
Toluene	50.0	46.8		ug/L		94	70 - 130	
Ethylbenzene	50.0	48.0		ug/L		96	70 - 130	
Xylenes, Total	100	96.0		ug/L		96	70 ₋ 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	107		78 - 118
Dibromofluoromethane	91		81 - 121
Toluene-d8 (Surr)	102		80 - 120
1.2-Dichloroethane-d4 (Surr)	103		67 - 134

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

Analysis Batch: 418202

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	4.8		50.0	46.8		ug/L		84	56 - 142	
Toluene	<1.0		50.0	45.7		ug/L		91	65 ₋ 130	
Ethylbenzene	<1.0		50.0	46.4		ug/L		93	58 ₋ 131	
Xylenes, Total	<10		100	93.6		ug/L		94	59 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

-	-	
4-Bromofluorobenzene	109	78 - 118
Dibromofluoromethane	90	81 - 121
Toluene-d8 (Surr)	103	80 - 120
1,2-Dichloroethane-d4 (Surr)	103	67 - 134

TestAmerica Pensacola

Client Sample ID: Matrix Spike

Prep Type: Total/NA

QC Sample Results

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

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

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	4.8		50.0	47.5		ug/L		85	56 - 142	1	30
Toluene	<1.0		50.0	45.8		ug/L		92	65 - 130	0	30
Ethylbenzene	<1.0		50.0	46.1		ug/L		92	58 - 131	1	30
Xylenes, Total	<10		100	92.9		ug/L		93	59 - 130	1	30
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	108		78 - 118								
Dibromofluoromethane	92		81 - 121								
Toluene-d8 (Surr)	102		80 - 120								
1,2-Dichloroethane-d4 (Surr)	103		67 - 134								

TestAmerica Job ID: 400-161292-1

Client Sample ID: MW-1

Date Collected: 10/28/18 13:50

Date Received: 10/30/18 09:38

Batch

Lab Chronicle

Initial

Batch

Final

Dil

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Batch

Lab Sample ID: 400-161292-1

Prepared

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Matrix: Water

Prep Type Method Factor Number or Analyzed Туре Run Amount Amount Analyst Lab Total/NA Analysis 8260C 5 mL 5 mL 418202 11/03/18 15:23 WPD TAL PEN Instrument ID: CH CONAN **Client Sample ID: MW-3** Lab Sample ID: 400-161292-3 Date Collected: 10/28/18 14:00 Matrix: Water Date Received: 10/30/18 09:38 Batch Batch Dil Initial Final Batch Prepared Method or Analyzed Prep Type Type Run Factor Amount Amount Number Analyst Lab Total/NA 8260C 418202 11/03/18 15:49 WPD TAL PEN Analysis 5 mL 5 mL Instrument ID: CH_CONAN **Client Sample ID: MW-5** Lab Sample ID: 400-161292-4 Date Collected: 10/28/18 13:30 Matrix: Water Date Received: 10/30/18 09:38 Dil Batch Initial Final Batch Batch Prepared Method Number Prep Type Туре Run Factor Amount Amount or Analyzed Analyst Lab Total/NA Analysis 8260C 5 mL 418202 11/03/18 13:21 WPD TAL PEN 5 ml Instrument ID: CH_CONAN Lab Sample ID: 400-161292-5 Client Sample ID: MW-6 Date Collected: 10/28/18 13:45 Matrix: Water Date Received: 10/30/18 09:38 Dil Initial Batch Batch Batch Final Prepared Type Method Factor Amount Amount Number Prep Type Run or Analyzed Analyst I ab 8260C Analysis 11/03/18 16:13 WPD TAL PEN Total/NA 1 5 mL 5 mL 418202 Instrument ID: CH_CONAN **Client Sample ID: MW-7** Lab Sample ID: 400-161292-6 Date Collected: 10/28/18 14:10 Matrix: Water Date Received: 10/30/18 09:38 Batch Batch Dil Initial Final Batch Prepared Method Factor Amount Number or Analyzed Prep Type Type Run Amount Analyst Lab Total/NA 418202 11/03/18 16:38 WPD TAL PEN Analysis 8260C 1 5 mL 5 mL Instrument ID: CH_CONAN **Client Sample ID: MW-8** Lab Sample ID: 400-161292-7 Date Collected: 10/28/18 14:20 Matrix: Water Date Received: 10/30/18 09:38

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 5 mL	Final Amount 5 mL	Batch Number 418202	Prepared or Analyzed 11/03/18 17:02	Analyst WPD	Lab TAL PEN
	Instrument	ID: CH_CONAN								

Lab Chronicle

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Client Sample ID: DUP-01

Date Collected: 10/28/18 13:25 Date Received: 10/30/18 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	418202	11/03/18 17:28	WPD	TAL PEN
	Instrumer	t ID: CH CONAN								

Client Sample ID: TB-01 Date Collected: 10/28/18 13:20 Date Received: 10/30/18 09:38

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	418202	11/03/18 09:16	WPD	TAL PEN
	Instrumen	t ID: CH_CONAN								

Laboratory References:

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

Matrix: Water

Matrix: Water

TestAmerica Job ID: 400-161292-1

Lab Sample ID: 400-161292-8

Lab Sample ID: 400-161292-9

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

Laboratory: TestAmerica Pensacola

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

TestAmerica Job ID: 400-161292-1

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
llinois	NELAP	5	200041	10-09-19
owa	State Program	7	367	08-01-20
Cansas	NELAP	7	E-10253	10-31-18 *
Kentucky (UST)	State Program	4	53	06-30-19
entucky (WW)	State Program	4	98030	12-31-18
ouisiana	NELAP	6	30976	06-30-19
ouisiana (DW)	NELAP	6	LA170005	12-31-18
aryland	State Program	3	233	09-30-19
issachusetts	State Program	1	M-FL094	06-30-19
chigan	State Program	5	9912	06-30-19
ew Jersey	NELAP	2	FL006	06-30-19
rth Carolina (WW/SW)	State Program	4	314	12-31-18
klahoma	State Program	6	9810	08-31-19
ennsylvania	NELAP	3	68-00467	01-31-19
hode Island	State Program	1	LAO00307	12-30-18
outh Carolina	State Program	4	96026	06-30-19
ennessee	State Program	4	TN02907	06-30-19
exas	NELAP	6	T104704286-18-16	09-30-19
6 Fish & Wildlife	Federal		LE058448-0	07-31-19
SDA	Federal		P330-18-00148	05-17-21
rginia	NELAP	3	460166	06-14-19
/ashington	State Program	10	C915	05-15-19
Vest Virginia DEP	State Program	3	136	06-30-19

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

Method Summary

Client: Stantec Consulting Services Inc Project/Site: ElPaso CGP Company, LLC - GCU Com A#142E

TestAmerica Job ID: 400-161292-1

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

12 13

TestAmerica Pensacola 3355 McLemore Drive Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671	Chain o	f Custo	Chain of Custody Record		TestAmerica
Client Information	is	Solering		M 400-161292 COC Carrier Tracking No(s)	ing No(s) COC No: 400-77988-29200.1
Client Contact: Ms. Sarah Gardner	303 291 2239			E-Mail: carol,webb@testamericainc.com	Page 1 of 1
Company: Stantec Consulting Services Inc				Analysis Requested	Job#:
Address: 1560 Broadway Suite 1800	Due Date Requested:				des:
City Denver	TAT Requested (days):				
State, Zip. CO, 80202	Zamp				
Phone: 303-291-2239(Tel)	PO#: See Project Notes		(0		F - MeOH R - Na22503 G - Amchor S - H2SO4 H - Ascorbic Aud T - TSP Dodesahvdrate
Email: sarah.gardner@stantec.com	"#OM				1 - Ice J - DI Water
Project Name: GCU Com A #142E Q4 2018	Project #. 40005479				L-EDA
sile: GCU Com A# 142E	SSOW#		_	092	Of coi
Samule Identification	Sample Sample Date Time	Sample Type (C=comp, G=orab)	Matrix de (Wawater, Sereold, Orwater, Orwater, Matrixens and	9260C - BTEX 8	Total Number Special Instructions/Note
	-	0	X	A	
mw-l	1350 No128/18	9	3	5	
MW-2	10/28/18 1430	3	3	3	
E-WM	10/28/18/1400	5	ß	3	
MW-S	10/28/18 1330	0	3	3	Unoreserved
A-WM		6	3	2	-
r-wm	(11H) 81/82 01	e	S	3	
mw-8	10/28/18 1420	5	3	3	
DUPOI	10/28/18 1325	S	N	3	
16-01	a221 81/3401	١	3	2	
Possible Hazard Identification	t Deison B Unknown	Radiological		mple Disposal (A fee may be assessed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Months
io.				Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date		Time:	4	1
Beinguished by OLLULANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DateTime. DateTime.	200	Company Stante Company	Received by Received by Received by	Date Time / 30/18 OP Company APM
Relinquished by:	Date/Time:		Company	Received by:	Date/Time: Company
Custody Seals Intact: Custody Seal No.: A Yes A No				Cooler Temperature(s) $^{\circ}C$ and Other Remarks:	4100 120
					Ver. 08/04/2016
				1 1 1	2 3 4 5 7 8 8

Released to Imaging: 4/30/2024 2:28:37 PM

11/5/2018

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Received by OCD: 3/30/2022 12:17:07 PM

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TestAmorica	Sample Control Checklist	Pensacola
TestAmerica		PS-SC-FM-005, Rev. 0
THE LEADER IN ENVIRONMENTAL TESTING		Effective Date: 09/18/2018
		Page 1 of 1
	1	AV
	Inspected by:	
4 10-161292 Login 1 M: Webb, Carol M 1 M: Webb, Carol M	Labeled by:	1
1 M: Webb. Carol M (ompany: Stantee Consulting Services Inc	Delivered by:	
	Received by:	
0	COC Signed/Dated:	Ma
W		
Logged by:	COC Temp/IR Gun Listed:	71
Notes:		
29		
1 4		
-		

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Login Number: 161292 List Number: 1 Creator: Perez, Trina M

Login Number: 161292 List Number: 1		List Source: TestAmerica Pensacola	5
Creator: Perez, Trina M			
Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> <td></td>	N/A		
The cooler's custody seal, if present, is intact.	True		
Sample custody seals, if present, are intact.	N/A		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True	3.4°C IR-7	
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		14
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		

List Source: TestAmerica Pensacola

ATTACHMENT S





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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C	7046
1001 Louisiana Street	Action Number:
Houston, TX 77002	94313
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS		
Created By	Condition	Condition Date
michael.buchanan	2021 Annual Groundwater Report for GCU#142E is accepted for the record	4/30/2024

CONDITIONS

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Action 94313