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November 8, 2021

Mr. Bradford Billings New Mexico Oil Conservation District 1220 South St. Francis Drive Santa Fe, NM 87505

VIA: Electronic Submittal Only

Re: Site Update and Remedial Work Plan Former State G 4 Tank Battery, 1R-4863 Sec 18, T-19S, R-37E, Lea County

Dear Mr. Billings:

Enclosed please find the Site Update and Remedial Work Plan for 1R-4863, Former State G 4 Tank Battery, located in Monument, New Mexico. The report summarizes the additional monitoring wells installed in March 2021 as well as liquid phase hydrocarbon (LPH) recovery efforts.

Per your request, the process of evaluating the viability of an air sparge/soil vapor extraction system had begun; however, Hess does not recommend further pursing this option due to the presence of LPH in monitoring wells MW-1, MW-2, and MW-5. Hess is instead proposing to excavate soil in the areas with elevated Total Petroleum Hydrocarbons to a depth of four feet below ground surface, line the excavation with a polyethylene liner, and backfill with clean soil.

Hess will begin the proposed scope of work detailed in this report upon your approval. If you should have any further questions or require additional information, please feel free to contact the undersigned at 713-496-7296.

Sincerely,

Brian Epperson Director, EHS

cc: Brad Freeman, GeoMonitoring Services

# FORMER STATE G 4 TANK BATTERY 1R-4863

SECTION 18, TOWNSHIP 19 SOUTH, RANGE 37 EAST MONUMENT, LEA COUNTY, NEW MEXICO

### SITE UPDATE AND REMEDIAL WORK PLAN

Prepared for:



## **Hess Corporation**

1501 McKinney Houston, TX 77010



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#### 1.0 INTRODUCTION

The Former State G 4 Tank Battery (State G 4 or the Site) is located northwest of Monument, New Mexico in southern Lea County. The legal description of the site is Section 18, Township 19 South, and Range 37 East. The Site latitude is 32° 39' 24.1" and longitude is 103° 17' 47.4". The Site was formerly a tank battery that was dismantled at an unknown date. A regional location map showing the site location is included as **Figure 1**. No known environmental incidents have occurred at the Site; however, the Site is under investigation due to its historical use as a former tank battery. On December 5, 2005, the New Mexico Oil Conservation Division (NMOCD) approved a general work plan submitted by Hess Corporation (Hess) to investigate and remediate locations within the North Monument Grayburg San Andres Unit (NMGSAU) that have historical contamination. A C-141 form was submitted and approved by NMOCD on November 29, 2017, and remediation case number 1R-4863 was assigned.

BBC International (BBC) initiated the investigation of the former tank battery on June 30 and July 1, 2015 by advancing nine soil borings to depths as great as 55 feet below ground surface (bgs). The locations of these borings are shown on the Site Map in **Figure 2.** Soils were analyzed for Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Chloride, Total Petroleum Hydrocarbons Gasoline Range Organics (TPH-GRO), and Total Petroleum Hydrocarbons Diesel Range Organics (TPH-DRO). Chloride concentrations were above the NMOCD Standard in soil boring SP1 to a depth of 25 feet, SP2 at depths of 15 feet and 45 feet, and SP6 to a depth of 20 feet. Total TPH concentrations were above the NMOCD Standard in soil borings SP1, SP2, and SP7 to a depth of 55 feet in each location, as well as SP6 to a depth of 20 feet. Concentrations for Benzene or Total BTEX were not above the NMOCD Standard in any of the soil borings.

A monitoring well, MW-1, was installed by BBC during the initial investigation in July 2015. The presence of Liquid Phase Hydrocarbon (LPH) was observed in the monitoring well, and no groundwater sample was collected at that time. GeoMonitoring Services (GMS) gauged MW-1 three times in 2016 in August, October, and December. No measurable LPH was observed during these three events, and groundwater samples were collected and analyzed for BTEX, TPH-GRO, TPH-DRO, and Chlorides. Polynuclear Aromatic Hydrocarbons (PAHs) were also analyzed during the December 2016 sampling event. Only Chloride concentrations exceeded the New Mexico Water Quality Control Commission (NM WQCC) Standard of 250 milligrams per liter (mg/L) in October 2016 with a concentration of 640 mg/L.

GMS utilized the information gathered during the initial investigation conducted by BBC International to further delineate the soil and groundwater impacts. GMS installed four additional monitoring wells and three soil borings in November 2016. An additional five soil borings were advanced and temporary wells were installed in November 2017. Analysis of soil samples demonstrated Total TPH concentrations in excess of the NMOCD Standards of 1,000 mg/kg to depths up to 60 feet in MW-2, 60 feet in MW-5, 50 feet in SB-10, 50 feet in SB-11, and 50 feet in SB-12. Soil borings SB-13 through SB-17

and MW-3 and MW-4 did not have any detections for Total TPH in excess of the NMOCD Standards. Chloride concentrations did not exceed the NMOCD Standard in any of the sample points. Groundwater samples did not have concentrations of BTEX or TPH above the NM WQCC Standards, with the exception of a Benzene detection in monitoring well MW-5 with a concentration of 32 µg/L. Chloride concentrations exceeded the NM WQCC standard in monitoring wells MW-1, MW-3, MW-4, and soil boring SB-14. The total dissolved solids (TDS) concentration in soil boring SB-14 exceeded the NM WQCC Standard. A Site Assessment Report further detailing the above investigation was submitted on July 25, 2018. In that report, Hess proposed excavating the areas with elevated TPH to a depth of four feet, installing a polyethylene liner, and backfilling with clean soil.

During a meeting at the NMOCD office on October 2, 2018, NMOCD expressed interest in Hess evaluating the viability of an air sparge and vapor extraction (AS/VE) system instead of the proposed excavation. On March 3, 2019, Hess submitted a Sparge Test Work Plan, which proposed installing one test point and one observation point. On June 19, 2019, Hess performed gamma and conductivity logs in the five monitoring wells to begin evaluating AS/VE viability. During this event, LPH was observed in the most upgradient monitoring well, MW-5, with a thickness of 3.5 feet. LPH thicknesses in monitoring wells MW-1 and MW-2 had also increased to greater than 6 feet.

A Site Update dated November 12, 2020, noted that LPH samples were subsequently collected from MW-1, MW-2, and MW-5, and the analysis concluded the LPH in all three wells came from the same source and/or release. The update also discussed baildown tests conducted on MW-1 and MW-5, and noted that after 8 hours, MW-1 returned to 57% of its pretest thickness, and MW-5 returned to 70% of its pretest thickness. The update concluded that Hess planned to install three additional monitoring wells immediately south of the road, upgradient of MW-5.

#### 2.0 Monitor Well Installation and Soil Sampling Activities

Per Hess' proposal in the November 12, 2020, Site Update, three monitoring wells were installed upgradient of MW-5 on March 23, 2021 by HCI Drilling using an air rotary rig. Monitoring wells, MW-6, MW-7, and MW-8 were each advanced to a depth of 70 feet bgs and completed with 20 foot of PVC screen, followed by 50 feet of PVC riser. The annulus of each hole was backfilled with sand, followed by a bentonite seal. Well logs are found in **Attachment 1.** The soils were screened with a photoionization detector (PID) at five-foot intervals. No PID readings were measured above 0.0 parts per million (ppm) in any of the three wells. The PID readings for each monitoring well and soil boring are found on **Table 1**.

Soil samples were collected at intervals of every 10 feet and placed in a laboratory-supplied glass container to be analyzed by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico for BTEX, Total TPH, and Chloride. No concentrations for Benzene, Total BTEX, or Total TPH were detected. No Chloride detections exceeded the NMOCD Standard of 10,000 mg/kg. A summary of the soil laboratory results is found on **Table 2**.

#### 3.0 Groundwater Activities

After completing installation of monitoring wells MW-6, MW-7, and MW-8, each monitoring well was then developed by removing 15 to 30 gallons of water via pump. All monitoring wells on site were gauged on March 30, 3021. No LPH was observed in monitoring wells MW-3, MW-4, MW-6, MW-7, or MW-8. LPH was observed in monitoring wells MW-1, MW-2, and MW-5 with thicknesses of 6.64 feet, 6.61 feet, and 5.38 feet, respectively. The groundwater gradient was to the north, as shown in **Figure 1**.

Groundwater samples were collected from all monitoring wells on March 30, 2021, with the exception of MW-1, MW-2, and MW-5 due to the presence of LPH. The samples were analyzed for BTEX, TPH-GRO, TPH-DRO, TPH EXT-DRO, Chloride, TDS, and PAHs. Purging was completed by bailing three well volumes, and three field measurements were recorded for pH, conductivity, temperature, dissolved oxygen, salinity, TDS, and oxygen redox potential (ORP). Final readings for pH ranged from 6.75 standard units (s.u.) at MW-8 to 7.29 s.u. at MW-4. Final readings for conductivity ranged from 822 micro ohms per centimeter squared ( $\mu$  ohms/cm²) at MW-6 to 2,214  $\mu$  ohms/cm² at MW-4. Final readings for dissolved oxygen ranged from 3.6 mg/L at MW-7 to 4.29 mg/L at MW-8. Final temperature readings ranged from 17.08 degrees Celsius (°C) at MW-6 to 21.35°C at MW-4. TDS ranged from 826 ppm at MW-6 to 1,552 ppm at MW-4. ORP ranged from -4.5 millivolts (mv) at MW-4 to 1,448.8 mv at MW-6. A summary of field data is found in **Table 5**.

The samples were transferred from the bailers into dedicated laboratory-supplied Teflon<sup>™</sup>-capped glassware. The groundwater samples were preserved with hydrochloric acid, placed into a cooler, and maintained at a temperature of less than 4°C for transportation to Cardinal.

None of the groundwater samples collected on March 30, 3021 had detected concentrations for BTEX, TPH-GRO, TPH-DRO, TPH Ext-DRO or PAHs. Monitoring wells MW-3, MW-4, MW-7, and MW-8 had Chloride concentrations above the NM WQCC Standard of 250 mg/L. These concentrations ranged from 252 mg/L in MW-3 to 380 mg/L in MW-7. Monitoring wells MW-3, MW-4, MW-7, and MW-8 also exceeded the NM WQCC Standard for TDS of 1,000 mg/L with concentrations ranging from 1,084 mg/L in MW-3 to 1,552 mg/L in MW-4. A summary of groundwater monitoring results is found in **Tables 4A and 4B** and is shown in **Figure 2**. The laboratory report is found in **Attachment 2**.

#### 4.0 LPH Recovery Activities

In an effort to remove LPH from the monitoring wells, a solar sipper was installed in MW-1 and began recovery on March 30, 2021. The solar sipper was plumbed to discharge into an adjacent drum, which was stored in an overpack. A second solar sipper was installed in MW-2 on April 15, 2021 and was plumbed to discharge into a 300-gallon double wall tank. The wells and recovery containers were gauged monthly in order to measure the decrease in LPH thickness in the wells and monitor the recovery progress.

Approximately 9 gallons of LPH and 75 gallons of water have been recovered from monitoring well MW-1, and approximately 40 gallons of LPH and 250 gallons of water have been recovered from monitoring well MW-2 through September 2021. A summary of the solar sipper recovery is shown in **Table 5.** In addition, MW-1, MW-2, and MW-5 were bailed by hand on July 28, 2021, September 1, 2021, and September 28, 2021. Approximately 4 to 5 gallons were bailed from each well during these three bailing events. **Table 3** shows the decrease in LPH thicknesses in the monitoring wells through September 2021. The LPH thickness in MW-1 decreased from 6.64 feet on March 30, 2021, to 1.94 feet on September 28, 2021. The LPH thickness in MW-2 decreased from 6.61 feet on March 30, 2021, to 2.79 feet on September 28, 2021. The LPH thickness in MW-5 decreased from 4.68 feet on July 28, 2021, to 4.05 feet on September 28, 2021.

#### 5.0 Recommended Remedial Plan and Schedule

Based on the presence of LPH in monitoring wells MW-1, MW-2, and MW-5, Hess does not recommend pursuing an AS/SVE system as this could promote mobility of the LPH. Hess instead would like to accelerate the remedial effort by excavating the areas with elevated Total TPH concentrations. An excavator will be utilized to excavate the approximately 16,000 square foot impacted area, which is shown in **Figure 3**, to a depth of 4 feet bgs. The approximately 2,850 cubic yards of excavated soils will then be stockpiled onsite to await transport by belly dump trucks for final disposal. Prior to beginning the excavation activities, the above-ground steel monitoring well shelters and associated concrete pad will be removed from the monitoring wells within the excavation area, while leaving the PVC riser pipe in place.

Subsequent to excavation activities, the excavation will be fully lined with a 20 mil polyethylene liner. The 20 mil polyethylene liner will be installed over the monitor well riser pipe and then sealed to the PVC riser pipe. Upon completing the liner installation, belly dump trucks will begin transporting approved backfill material to the site, and the backfill material will begin being placed into the lined excavation. The backfilled excavation will then be leveled to the surrounding grade surface utilizing the loader. Subsequent to completion, the above ground steel monitoring casings will be re-installed over the PVC riser pipe and secured with concrete bases.

After completion of the above activities, Hess will resume LPH removal and sample the monitoring wells semiannually for TPH-GRO, TPH-DRO, TPH EXT-DRO, Chloride, and TDS. LPH samples will be collected for gas chromatography/mass spectrometry (GC/MS) analysis to determine the impact on contacted groundwater. Site status updates will be provided annually. Hess proposes the following schedule for completing the above activities:

Remove monitor well shelters and concrete pads – December 1, 2021

- Begin excavation December 2, 2021
- Install polyethylene liner December 9, 2021
- Begin backfilling excavation December 15, 2021
- Replace monitor well shelters and pads December 17, 2021
- Resume LPH recovery and sample monitor wells January 2022
- Collect LPH samples for GC/MS Analysis January 2022

## **Tables**

# Table 1 Summary of PID Readings Texaco NM State G 4 Battery

Sample	Date	PID Reading
Identification	Sampled	(ppm)
MW-6 05'		0
MW-6 10'	1	0
MW-6 15'	1	0
MW-6 20'	1	0
MW-6 25'	1	0
MW-6 30'	1	0
MW-6 35'	1	0
MW-6 40'	3/23/2021	0
MW-6 45'	1	0
MW-6 50'	1	0
MW-6 55'	1	0
MW-6 60'	1	0
MW-6 65'	1	0
MW-6 70'	1	0
MW-7 05'		0
MW-7 10'	1	0
MW-7 15'	1	0
MW-7 20'	1	0
MW-7 25'	-	0
MW-7 30'	-	0
MW-7 35'	-	0
MW-7 40'	3/23/2021	0
MW-7 45'	-	
	-	0
MW-7 50'	-	0
MW-7 55'	-	0
MW-7 60'	4	0
MW-7 65'	4	0
MW-7 70'		0
MW-8 05'	4	0
MW-8 10'	4	0
MW-8 15'	4	0
MW-8 20'		0
MW-8 25'	4	0
MW-8 30'	4	0
MW-8 35'	3/23/2021	0
MW-8 40'	4	0
MW-8 45'	4	0
MW-8 50'	4	0
MW-8 55'	1	0
MW-8 60'	1	0
MW-8 65'		0
MW-8 70'		0

#### NOTE:

ppm - parts per million

#### Table 2 **Summary of Soil Laboratory Results** BTEX, TPH, Chloride **Texaco NM State G 4 Battery**

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-DRO (C28-C36)	Total TPH	Chloride
Identification	Sampled	(mg/kg)	(mg/kg)	(ng/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD S	Standards:	10	NONE	NONE	NONE	50	NONE	NONE	NONE	2,500	10,000
MW-6 10'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	48
MW-6 20'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	32
MW-6 30'		< 0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	32
MW-6 40'	3/23/2021	<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	32
MW-6 50'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	16
MW-6 60'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	32
MW-6 70'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	16
MW-7 10'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	48
MW-7 20'		< 0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	48
MW-7 30'		<0.025	<0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	16
MW-7 40'	3/23/2021	<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	<16
MW-7 50'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	32
MW-7 60'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	16
MW-7 70'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	112
MW-8 10'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	48
MW-8 20'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	48
MW-8 30'		< 0.025	<0.025	<0.025	<0.025	<0.150	<10	<10	<10	ND	16
MW-8 40'	3/23/2021	<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	32
MW-8 50'		<0.025	<0.025	<0.025	<0.025	<0.150	<10	<10	<10	ND	16
MW-8 60'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	16
MW-8 70'		<0.025	< 0.025	< 0.025	<0.025	<0.150	<10	<10	<10	ND	80

#### NOTE:

Groundwater between 51 - 100 feet

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

TPH = Total Petroleum Hydrocarbons

TPH-GRO = Total Petroleum Hydrocarbons Gasoline Range Organics
TPH-DRO = Total Petroleum Hydrocarbons Diesel Range Organics
NM WQCC = New Mexico Water Quality Control Commission

ND = Not Detected

mg/kg - milligrams per kilogram

NONE = no NM WQCC Standard for this constituent

**BOLD** values exceed NM WQCC standards

Table 3
Summary of Groundwater Gauging Data
Texaco NM State G 4 Battery

Well No.	Casing Diameter	Top of Casing to Bottom of Well (feet)	Top of Casing Elevation (feet)	Date	Top of Casing to LPH (feet)	Top of Casing to Water (feet)	LPH Thickness	Groundwater Elevation (feet)
	2	74.50	2707.26	12/21/2016	NE	58.99	0.0	3648.37
	2	74.53	3707.36	11/30/2017	NE	59.71	0.0	3647.65
				7/24/2019	62.34	66.28	3.94	3644.232
				9/3/2019	62.08	64.17	2.09	3644.862
MW-1				10/6/2020	61.93	67.94	6.01	3644.228
IVIVV - I				3/30/2021	61.96	68.6	6.64	3644.072
				6/21/2021	62.72	65.79	3.07	3644.026
				7/28/2021	62.05	66.11	4.06	3644.498
				9/1/2021	62.04	66.55	4.51	3644.418
				9/28/2021	62.06	64	1.94	3644.912
	2	NM	3706.78	12/21/2016	57.8	62.09	4.29	3648.122
	2	INIVI	3700.70	11/30/2017	NM	NM	NM	NM
				7/24/2019	61.63	66.98	5.35	3644.08
				9/3/2019	61.18	65.45	4.27	3644.746
MW-2				10/6/2020	61.26	67.45	6.19	3644.282
IVIVV-Z				3/30/2021	61.35	67.96	6.61	3644.108
				6/28/2021	61.97	67.05	5.08	3643.794
				7/28/2021	61.52	65.54	4.02	3644.456
				9/1/2021	61.81	65.75	3.94	3644.182
				9/28/2021	61.4	64.19	2.79	3644.822
	2	73.1	2707.14	12/21/2016	NE	58.87	0.0	3648.27
	2	73.1	3707.14	11/30/2017	NE	59.56	0.0	3647.58
MW-3				7/24/2019	NE	62.48	0.0	3644.66
10100-3				9/3/2019	NE	62.03	0.0	3645.11
				10/6/2020	NE	62.38	0.0	3644.76
				3/30/2021	NE	62.62	1.0	3644.52
	2	73.3	3707.01	12/21/2016	NE	58.64	0.0	3648.37
	2	73.3	3707.01	11/30/2017	NE	59.33	0.0	3647.68
MW-4				7/24/2019	NE	62.40	0.0	3644.61
IVIVV- <del></del>				9/3/2019	NE	61.92	0.0	3645.09
				10/6/2020	NE	62.15	0.0	3644.86
				3/30/2021	NE	62.42	0.0	3644.59
	2	73.4	3706.57	12/21/2016	NE	58.05	0.0	3648.52
	_	70.4	0100.01	11/30/2017	58.76	58.86	0.10	3647.79
				7/24/2019	61.57	64.51	2.94	3644.41
				9/3/2019	61.06	63.81	2.75	3644.96
MW-5				10/6/2020	61.10	65.9	4.80	3644.51
				3/30/2021	61.19	66.57	5.38	3644.304
				6/21/2021	61.55	67.54	5.99	3643.822
				7/28/2021	61.12	65.73	4.61	3644.528
				9/1/2021	61.14	66.08	4.94	3644.442
				9/28/2021	60.93	64.98	4.05	3644.83
MW-6	2	75.30	3708.91	3/30/2021	NE	63.7	0.00	3645.21
MW-7	2	74.32	3708.83	3/30/2021	NE	63.32	0.00	3645.51
MW-8	2	72.15	3707.36	3/30/2021	NE	62.35	0.00	3645.01

Note:

LPH - Liquid Phase Hydrocarbon

NM - Not Measured
NE - Not Encountered

# Table 4A Summary of Groundwater Monitoring Results BTEX, TPH, Chloride, and TDS Texaco NM State G 4 Battery

Sample Identification	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	TPH-GRO (C6-C10) (mg/L)	TPH-DRO (C10-C28) (mg/L)	TPH EXT-DRO (C28- C36) (mg/L)	Chloride (mg/L)	TDS (mg/L)
NM WQCC	Standards:	10	750	750	620	NONE	NONE	NONE	250	1000
MW-1	12/21/2016	2.0	<0.5	3.0	10	16.9	163.0	NA	640	NA
10100-1	3/30/2021					NOT SAM	MPLED			
MW-2	12/21/2016					NOT SAM	MPLED			
IVIVV-Z	3/30/2021					NOT SAN	MPLED			
MW-3	12/21/2016	0.7	<0.5	<0.5	<2	<1	<1	NA	264	NA
10100-3	3/30/2021	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	252	1084
MW-4	12/21/2016	4.0	<0.5	<0.5	12	<1	1.58	NA	268	NA
IVI V V <del>- 21</del>	3/30/2021	2.0	<0.5	<0.5	2	<1	1.20	<1	340	1552
MW-5	12/21/2016	32	<0.5	16	110	4.68	13.2	NA	104	NA
C-VVIVI	3/30/2021					NOT SAM	MPLED			
MW-6	3/30/2021	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	48	826
MW-7	3/30/2021	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	380	1464
MW-8	3/30/2021	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	368	1526
SB-13	11/30/2017	<0.5	<0.5	<1	<2	<1	<1		224	974
SB-14	11/30/2017	<0.5	<0.5	<1	<2	<1	2.44		320	1220
SB-15	11/30/2017	<0.5	<0.5	1	20	4.19	19.6		72	730
SB-16	11/30/2017	<0.5	<0.5	<1	<2	1.66	2.45		72	664
SB-17	11/30/2017	<0.5	<0.5	<1	<2	<1	<1		80	600

#### NOTE:

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

TPH = Total Petroleum Hydrocarbons

TPH-GRO = Total Petroleum Hydrocarbons Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons Diesel Range Organics

NM WQCC = New Mexico Water Quality Control Commission

NA=not analyzed

μg/L = micrograms per Liter

mg/L - milligrams per Liter

NONE = no NM WQCC Standard for this constituent

**BOLD** values exceed NM WQCC standards

## Table 4B Summary of Groundwater Monitoring Results Polynuclear Aromatic Hydrocarbons Texaco NM State G 4 Battery

Sample	Date	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Carbazole	Fluoranthene	Pyrene	Benzo[a]anthracene	Chrysene	Benzo[b]flouranthene	Benzo[k]flouranthene	Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene	Dibenz[a,h]anthracene	Benzo[g,h,i]perylene
Identification	Sampled	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NM WQCC	Standards:																			
MW-1	12/21/2016	< 0.002	0.0	0.0	<0.002	0.003	0.002	0.008	0.008	< 0.003	< 0.002	< 0.002	0.003	0.003	< 0.004	<0.006	0.0	<0.002	0.002	<0.004
10104-1	3/30/2021											NOT SAME	LED							
MW-2	12/21/2016											NOT SAME								
IVIVV-Z	3/30/2021											NOT SAME								
MW-3	12/21/2016	< 0.0002	<0.0002	< 0.00009	< 0.0002	<0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	< 0.0007	< 0.0002	< 0.0002	< 0.0002	< 0.0005
IVIVV-3	3/30/2021	< 0.001	<0.001	< 0.0005	<0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.0002	<0.001	< 0.001	< 0.001
MW-4	12/21/2016	<0.0002	<0.0002	< 0.00009	<0.0002	< 0.0002	< 0.0002	<0.0002	<0.0002	< 0.0003	<0.0002	< 0.0002	<0.0002	<0.0002	< 0.0005	< 0.0007	< 0.0002	< 0.0002	<0.0002	< 0.0005
10100-4	3/30/2021	<0.001	<0.001	<0.0005	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	<0.0002	<0.001	<0.001	<0.001
MW-5	12/21/2016	0.002	0.004	0.006	<0.0002	<0.0002	0.001	0.001	0.001	< 0.0003	<0.0002	<0.0002	<0.0001	<0.0002	< 0.0004	< 0.0006	< 0.00002	<0.0002	<0.0002	< 0.0004
IMIVV-3	3/30/2021											NOT SAME	LED		•					
MW-6	3/30/2021	<0.001	<0.001	< 0.0005	<0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	<0.0002	<0.001	<0.001	< 0.001
MW-7	3/30/2021	< 0.001	<0.001	<0.0005	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.0002	< 0.001	<0.001	< 0.001
MW-8	3/30/2021	< 0.001	<0.001	<0.0005	<0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.0002	<0.001	<0.001	<0.001
SB-13	11/30/2017	< 0.001	<0.001	<0.0005	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	<0.0002	< 0.001	<0.001	< 0.001
SB-14	11/30/2017	< 0.001	<0.001	<0.0005	<0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001
SB-15	11/30/2017	0.01	0.021	0.022	<0.001	< 0.001	0.002	0.002	< 0.001	< 0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001
SB-16	11/30/2017	< 0.001	<0.001	<0.0005	<0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001
SB-17	11/30/2017	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001

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NOTE:

NM WQCC = New Mexico Water Quality Control Commission
mg/L - milligrams per Liter

NONE = no NM WQCC Standard for this constituent GeoMonitoring Services

# Table 5 Summary of Groundwater Field Data Texaco NM State G 4 Battery

Well ID	Casing Diameter	Date	Amount Purged	Field Reading	рН	Conductivity	Dissolved Oxygen	Temperature	Salinity	Total Dissolved Solids	ORP
	(inches)		(gallons)		(s.u.)	(µ ohms/cm²)	(mg/L)	(°C)	(ppt)	(ppm)	(mv)
				1st	6.36	1361	4.47	20.89	0.74	961	852.6
MW-3	2	3/30/2021	3	2nd	6.45	863	10.48	20.38	0.41	615	75.4
				3rd	6.92	1526	3.91	20.76	0.84	1084	55.1
				1st	6.87	2140	2.43	22.04	1.17	1478	-6.7
MW-4	2	3/30/2021	5	2nd	3.17	2223	2.96	20.69	1.25	1573	-47.6
			-	3rd	7.29	2214	3.87	21.35	1.23	1552	-4.5
				1st	7.08	748	11.89	17.96	0.36	480	85
MW-6	2	3/30/2021	5	2nd	7.18	673	8.49	17.82	0.51	669	1040.1
				3rd	7.28	822	3.93	17.08	0.64	826	1448.8
				1st	1.52	1441	5.2	17.02	0.86	1109	374.2
MW-7	3	3/30/2021	5	2nd	1.52	1642	5.37	18.1	0.97	1231	1359.2
				3rd	6.82	1927	3.6	17.78	1.16	1464	67.4
				1st	3.53	1871	6.33	18.35	1.1	1392	293.7
MW-8	4	3/30/2021	5	2nd	3.53	1932	5.74	18.21	1.15	1443	500.6
				3rd	6.75	2035	4.29	18.16	1.21	1526	163.1

# Table 6 Summary of Solar Sipper Recovery April through September 2021 Texaco NM State G 4 Battery

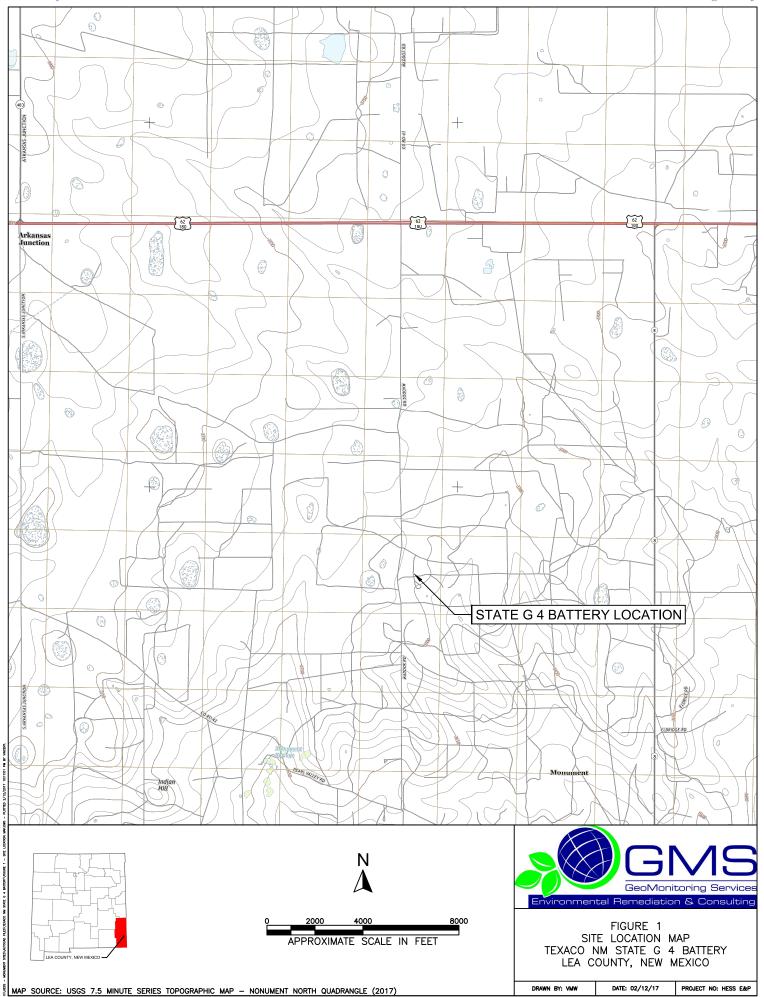
			MV	V-1			
Date of	Depth to	Depth to	Thickness	Depth to	Amount	Amount of	Total Fluid
Vacuuming	LPH (feet)	Water	(feet)	Bottom	of LPH	Water	(gallons)
Drums	LFH (leet)	(feet)	(leet)	(feet)	(gallons)	(gallons)	(gallons)
7/28/2021	0.5	0.7	0.2	2.8	4.074	42.777	46.851
9/28/2021	0.95	1.2	0.25	2.8	5.0925	32.592	37.6845
		Total:			9.1665	75.369	84.5355

55 gallon drum = 20.37 gallons per foot

	MW-2											
Date of	Depth to	Depth to	Thickness	Depth to	Amount	Amount of	Total Fluid					
Vacuuming	LPH (feet)	Water	(feet)	Bottom	of LPH	Water	(gallons)					
Tank	LFH (leet)	(feet)	(leet)	(feet)	(gallons)	(gallons)	(galloris)					
9/28/2021	0.94	1.25	0.31	3.14	40.92	249.48	290.4					
		Total:			40.92	249.48	290.4					

390 gallon tank = 11 gallons per inch

## **Figures**



APPROXIMATE SCALE IN FEET

DATE: 11/4/21

PROJECT NO: HESS E&P

Environmental Remediation & Consulting Note: Aerial Source - USGS IMAGEPATCH.COM @ MICROSOFT CORPORATION.





GeoMonitoring Services

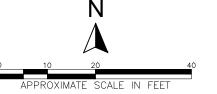
NOTE: AERIAL SOURCE - USGS IMAGEPATCH.COM @ MICROSOFT CORPORATION. FOR EACH SAMPLE
COLLECTED, BTEX, TPH, CHLORIDE, AND TOS DATA IS SHOWN. FOR PAH'S, ONLY CONSTITUENTS
COLLECTED, BTEX, TPH, CHLORIDE, AND TOS DATA IS SHOWN. FOR PAH'S, ONLY CONSTITUENTS
WHICH WERE DETECTED ARE SHOWN. ANALYTICAL DATA DISPLAYED IN RED EXCEEDS THE NEW
MEXICO WATER QUALITY CONTROL COMMISSION STANDARDS.

GeoMonitoring Services

SOIL BORING LOCATION

INITIAL SOIL BORING LOCATION

NA - NOT ANALYZED



MARCH 30, 2021 TEXACO NM STATE G 4 BATTERY LEA COUNTY, NEW MEXICO

DRAWN BY: JFLAKE

DATE: 11/4/21 PROJECT NO: HESS E&P



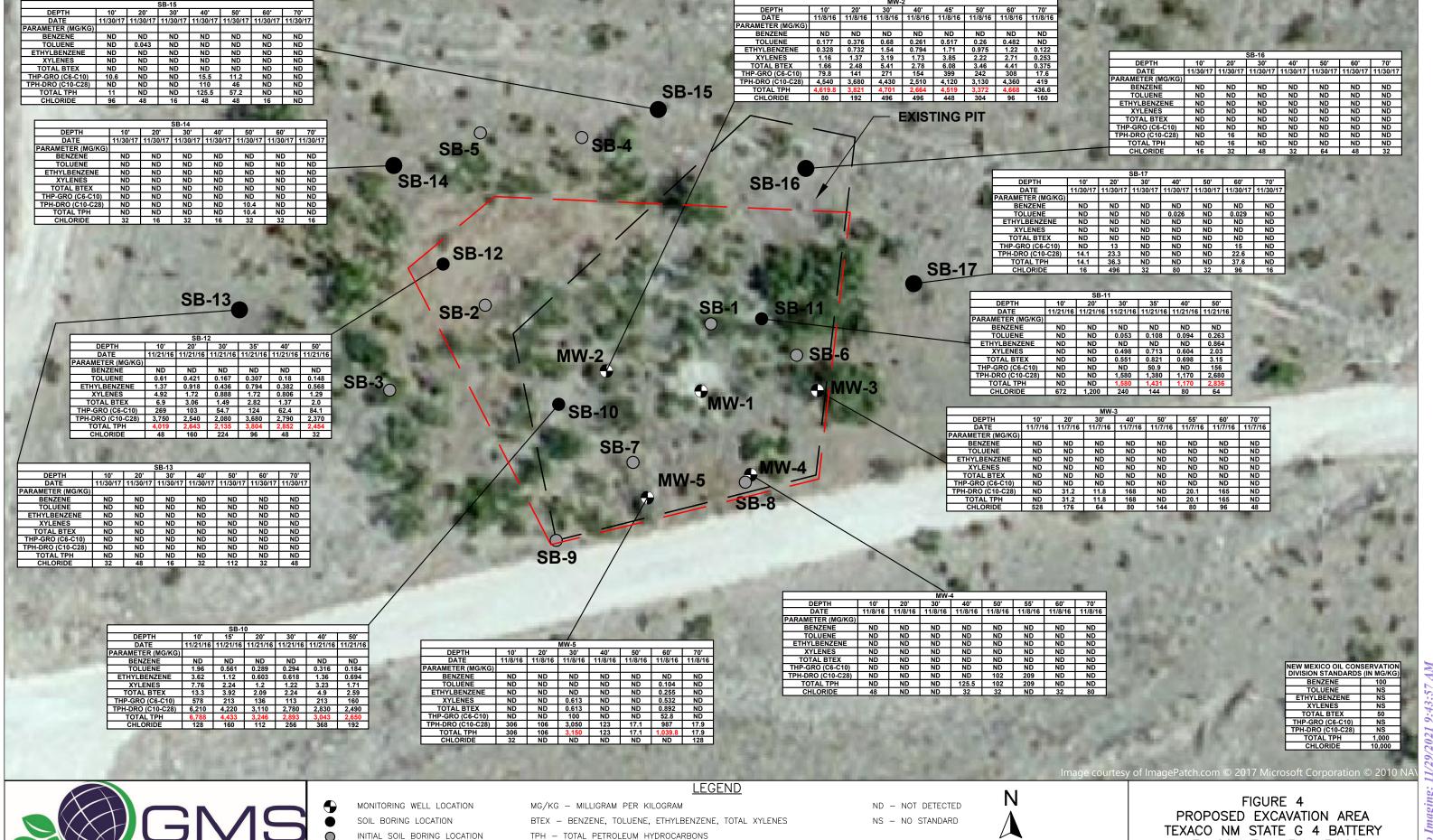
FORMER PIT

— PROPOSED EXCAVATION AREA

NOTE: AERIAL SOURCE - USGS IMAGEPATCH.COM © MICROSOFT CORPORATION. CONCENTRATIONS IN RED EXCEED NMOCD STANDARDS

GeoMonitoring Services

Environmental Remediation & Consulting



TPH-GRO - TOTAL PETROLEUM HYDROCARBONS (GASOLINE RANGE ORGANICS)

TPH-DRO - TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE ORGANICS)

DRAWN BY: JFLAKE DATE: 11/4/21 PROJECT NO: HESS E&P

LEA COUNTY, NEW MEXICO

APPROXIMATE SCALE IN FEET

## **Attachments**

# Attachment 1 Well Logs

DRILLING CO. HCI DRILLING GEOLOGIST:

DRILLER: KENNY COOPER CLIENT: HESS CORPORATION

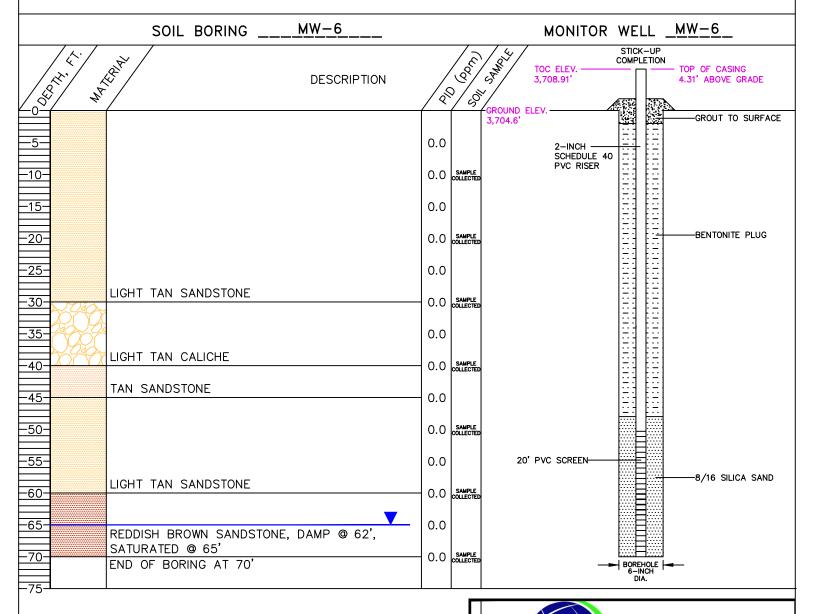
PROJECT NO: TEXACO STATE G4 BATTERY LOCATION: MONUMENT, NEW MEXICO

DATE COMPLETED: 3/23/21

METHOD: <u>AIR ROTARY</u>

SCREEN TYPE: PVC - 20' SET 50' TO 70' BSG

NOTES: BORING PRE-CLEARED TO 4"



#### LEGEND

▼ APPROXIMATE WATER LEVEL AT TIME OF DRILLING

LATITUDE: N 32° 39' 23.0" LONGITUDE: W 103° 17' 47.8"



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DRILLING CO. HCI DRILLING GEOLOGIST:

DRILLER: KENNY COOPER CLIENT: HESS CORPORATION

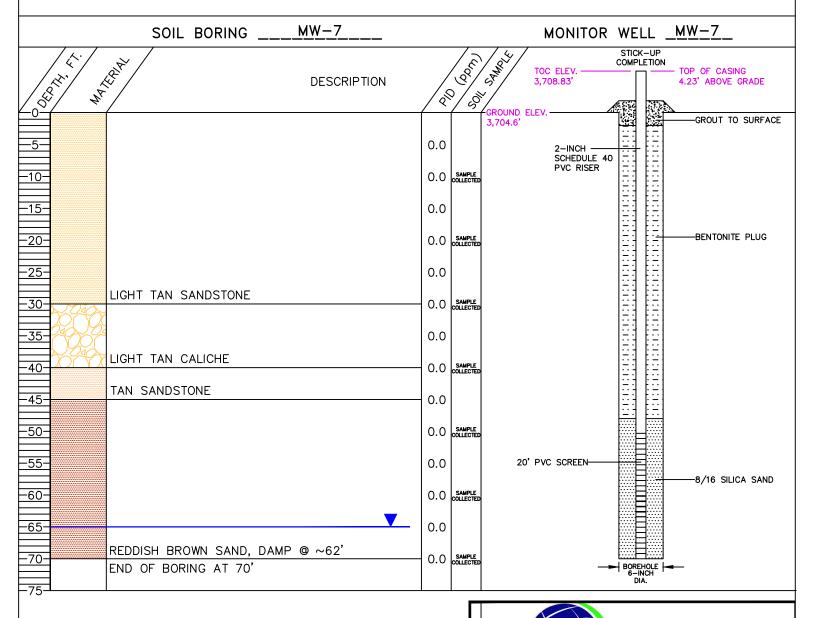
PROJECT NO: TEXACO STATE G4 BATTERY LOCATION: MONUMENT, NEW MEXICO

DATE COMPLETED: 3/23/21

METHOD: <u>AIR ROTARY</u>

SCREEN TYPE: PVC - 20' SET 50' TO 70' BSG

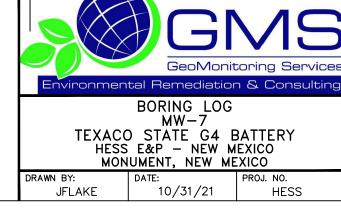
NOTES: BORING PRE-CLEARED TO 3-4"



#### LEGEND

▼ APPROXIMATE WATER LEVEL AT TIME OF DRILLING

LATITUDE: N 32° 39' 23.0" LONGITUDE: W 103° 17' 47.2"



Released to Imaging: 11/29/2021 9:43:57 AM

DRILLING CO. HCI DRILLING GEOLOGIST:

DRILLER: KENNY COOPER CLIENT: HESS CORPORATION

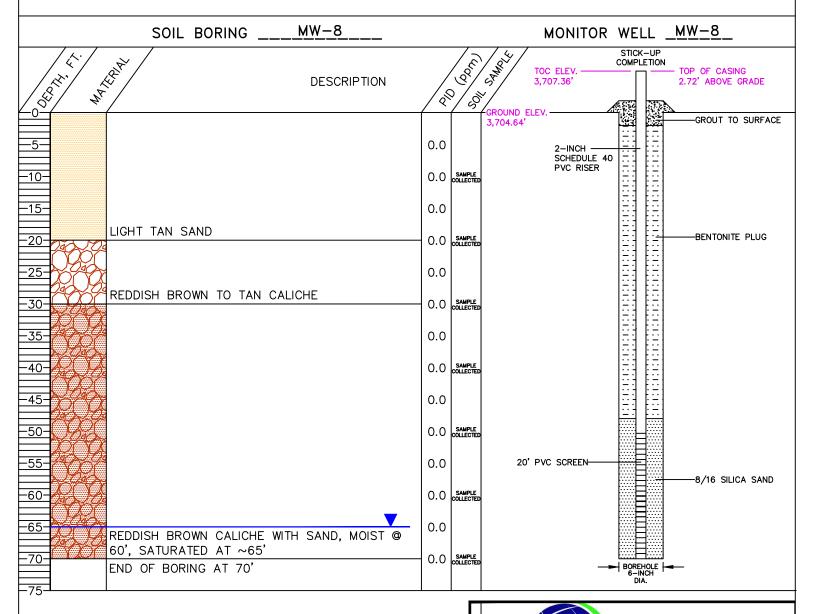
PROJECT NO: TEXACO STATE G4 BATTERY LOCATION: MONUMENT, NEW MEXICO

DATE COMPLETED: 3/23/21

METHOD: AIR ROTARY

SCREEN TYPE: PVC - 20' SET 50' TO 70' BSG

NOTES: BORING PRE-CLEARED TO 4"



#### LEGEND

▼ APPROXIMATE WATER LEVEL AT TIME OF DRILLING

LATITUDE: N 32° 39' 23.1" LONGITUDE: W 103° 17' 46.6"



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# Attachment 2 Laboratory Reports



March 25, 2021

**BRAD FREEMAN** 

GEO MONITORING SERVICES

P. O. BOX 295

FULSHEAR, TX 77441

RE: G STATE 4

Enclosed are the results of analyses for samples received by the laboratory on 03/23/21 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

 Received:
 03/23/2021

 Reported:
 03/25/2021

 Project Name:
 G STATE 4

Project Number: G STATE 4
Project Location: MONUMENT, NM

Sampling Date: 03/23/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: MW 6 @ 10 (H210731-01)

BTEX 8260B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	100	% 81.7-11	3						
Surrogate: Toluene-d8	97.9	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	93.9	% 62.8-13	11						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/23/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/23/2021	ND					
Surrogate: 1-Chlorooctane	81.7	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	80.4	% 42.2-15	6						

A ... - L ... - - - I D. .. MC

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Celeg & Freene



#### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021 Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: G STATE 4

Project Location: MONUMENT, NM

#### Sample ID: MW 6 @ 20 (H210731-02)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	99.0	% 81.7-11	3						
Surrogate: Toluene-d8	99.2	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.5	% 62.8-13	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/23/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/23/2021	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.3	% 42.2-15	6						

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Celey D. Keene



#### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021 Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Project Number: G STATE 4 Tamara Oldaker

Project Location: MONUMENT, NM

#### Sample ID: MW 6 @ 30 (H210731-03)

BTEX 8260B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	99.2	% 81.7-11	3						
Surrogate: Toluene-d8	99.0	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.7	% 62.8-13	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/23/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/23/2021	ND					
Surrogate: 1-Chlorooctane	84.7	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	82.2	% 42.2-15	6						

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Celey D. Keine



#### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021

Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact
Project Number: G STATE 4 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MONUMENT, NM

#### Sample ID: MW 6 @ 40 (H210731-04)

BTEX 8260B

DILX 0200D	ilig	r kg	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	99.2	% 81.7-11	3						
Surrogate: Toluene-d8	99.2 % 84.4-11		6						
Surrogate: 4-Bromofluorobenzene	92.2	% 62.8-13	11						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/23/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/23/2021	ND					
Surrogate: 1-Chlorooctane	84.9	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	83.8	% 42.2-15	6						

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Celeg & Frence



#### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

 Received:
 03/23/2021
 Sampling Date:
 03/23/2021

 Reported:
 03/25/2021
 Sampling Type:
 Soil

Reported:03/25/2021Sampling Type:SoilProject Name:G STATE 4Sampling Condition:Cool & IntactProject Number:G STATE 4Sample Received By:Tamara Oldaker

Project Location: MONUMENT, NM

#### Sample ID: MW 6 @ 50 (H210731-05)

BTEX 8260B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	102	% 81.7-11	3						
Surrogate: Toluene-d8	98.5	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	93.2	% 62.8-13	1						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/23/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/23/2021	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	80.1	% 42.2-15	6						

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Celey D. Keene



#### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021

Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Project Number: G STATE 4 Tamara Oldaker

Project Location: MONUMENT, NM

#### Sample ID: MW 6 @ 60 (H210731-06)

BTEX 8260B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	98.8	% 81.7-11	3						
Surrogate: Toluene-d8	99.7	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	91.6	% 62.8-13	1						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/23/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/23/2021	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	79.3	% 42.2-15	6						

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Celey D. Keine



Sample Received By:

Tamara Oldaker

#### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021

Reported: 03/25/2021 Sampling Type: Soil
Project Name: G STATE 4 Sampling Condition: Cool & Intact

Project Number: G STATE 4
Project Location: MONUMENT, NM

#### Sample ID: MW 6 @ 70 (H210731-07)

BTEX 8260B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	100 % 81.7-11		3						
Surrogate: Toluene-d8	99.9 % 84.4-11		6						
Surrogate: 4-Bromofluorobenzene	91.8	% 62.8-13	11						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/23/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/23/2021	ND					
Surrogate: 1-Chlorooctane	88.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	85.1	% 42.2-15	6						

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Celeg D. Freene



### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

 Received:
 03/23/2021
 Sampling Date:
 03/23/2021

 Reported:
 03/25/2021
 Sampling Type:
 Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact
Project Number: G STATE 4 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MONUMENT, NM

### Sample ID: MW 7 @ 10 (H210731-08)

BTEX 8260B

DILX 0200D	ilig	r kg	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	100	% 81.7-11	3						
Surrogate: Toluene-d8	98.8	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	91.5	% 62.8-13	11						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	86.3	% 42.2-15	6						

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### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021

Reported: 03/25/2021 Sampling Type: Soil Project Name: G STATE 4 Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker Project Number: G STATE 4 Project Location: MONUMENT, NM

### Sample ID: MW 7 @ 20 (H210731-09)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	98.6	% 81.7-11	3						
Surrogate: Toluene-d8	99.6	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.5	% 62.8-13	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	89.7	% 44.3-14	'4						
Surrogate: 1-Chlorooctadecane	88.3	% 42.2-15	6						

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Tamara Oldaker

Sample Received By:

### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021

Reported: 03/25/2021 Sampling Type: Soil
Project Name: G STATE 4 Sampling Condition: Cool & Intact

Project Number: G STATE 4
Project Location: MONUMENT, NM

### Sample ID: MW 7 @ 30 (H210731-10)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	102	% 81.7-11	3						
Surrogate: Toluene-d8	98.7	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.0	% 62.8-13	21						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	85.7	% 42.2-15	6						

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Celeg D. Freene



### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021 Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: G STATE 4

Project Location: MONUMENT, NM

### Sample ID: MW 7 @ 40 (H210731-11)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	101	% 81.7-11	3						
Surrogate: Toluene-d8	99.7	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	91.0	% 62.8-13	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	85.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.1	% 42.2-15	6						

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Celeg D. Keene



### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

 Received:
 03/23/2021
 Sampling Date:
 03/23/2021

 Reported:
 03/25/2021
 Sampling Type:
 Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact
Project Number: G STATE 4 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MONUMENT, NM

### Sample ID: MW 7 @ 50 (H210731-12)

BTEX 8260B

DILX 0200D	ilig	r kg	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/24/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/24/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/24/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/24/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/24/2021	ND					
Surrogate: Dibromofluoromethane	99.7	% 81.7-11	3						
Surrogate: Toluene-d8	100	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.3	% 62.8-13	11						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	85.4	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	84.5	% 42.2-15	6						

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### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021 Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Project Number: G STATE 4 Tamara Oldaker

Project Location: MONUMENT, NM

### Sample ID: MW 7 @ 60 (H210731-13)

BTEX 8260B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	99.0	% 81.7-11	3						
Surrogate: Toluene-d8	99.3	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	91.7	% 62.8-13	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	89.4	% 42.2-15	6						

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Celey D. Keine



03/23/2021

Soil

### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: Reported: 03/25/2021 Sampling Type:

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: G STATE 4

Project Location: MONUMENT, NM

### Sample ID: MW 7 @ 70 (H210731-14)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	99.3	% 81.7-11	3						
Surrogate: Toluene-d8	98.1	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.0	% 62.8-13	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2021	ND	175	87.7	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/25/2021	ND	174	87.2	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	03/25/2021	ND					
Surrogate: 1-Chlorooctane	82.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.7	% 42.2-15	6						

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### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

 Received:
 03/23/2021
 Sampling Date:
 03/23/2021

 Reported:
 03/25/2021
 Sampling Type:
 Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact
Project Number: G STATE 4 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MONUMENT, NM

### Sample ID: MW 8 @ 10 (H210731-15)

BTEX 8260B

DILX 0200D	ilig	r kg	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	99.8	% 81.7-11	3						
Surrogate: Toluene-d8	99.6	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.4	% 62.8-13	21						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	81.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	76.7	% 42.2-15	6						

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### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Reported: 03/25/2021

Project Name: G STATE 4
Project Number: G STATE 4
Project Location: MONUMENT, NM

Sampling Date: 03/23/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: MW 8 @ 20 (H210731-16)

BTEX 8260B

DILX 0200D	ilig	/ Ng	Allalyze	a by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	101	% 81.7-11	3						
Surrogate: Toluene-d8	98.9	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.3	% 62.8-13	31						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	82.8	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	77.5	% 42.2-15	56						

Analyzed By: MS

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### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021 Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Project Number: G STATE 4 Tamara Oldaker

Project Location: MONUMENT, NM

### Sample ID: MW 8 @ 30 (H210731-17)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	101	% 81.7-11	3						
Surrogate: Toluene-d8	99.4	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	90.1	% 62.8-13	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	79.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	74.1	% 42.2-15	6						

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### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

 Received:
 03/23/2021
 Sampling Date:
 03/23/2021

 Reported:
 03/25/2021
 Sampling Type:
 Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact
Project Number: G STATE 4 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MONUMENT, NM

### Sample ID: MW 8 @ 40 (H210731-18)

BTEX 8260B

DILX 0200D	ilig/	r kg	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	101	% 81.7-11	3						
Surrogate: Toluene-d8	99.4	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	92.6	% 62.8-13	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	77.9	% 42.2-15	6						

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### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021

Reported: 03/25/2021 Sampling Type: Soil Project Name: G STATE 4 Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker Project Number: G STATE 4 Project Location: MONUMENT, NM

### Sample ID: MW 8 @ 50 (H210731-19)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	100	% 81.7-11	3						
Surrogate: Toluene-d8	98.8	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	91.5	% 62.8-13	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	78.7	% 42.2-15	6						

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### Analytical Results For:

GEO MONITORING SERVICES **BRAD FREEMAN** P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

Received: 03/23/2021 Sampling Date: 03/23/2021 Reported: 03/25/2021 Sampling Type: Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact Sample Received By: Project Number: G STATE 4 Tamara Oldaker

Project Location: MONUMENT, NM

### Sample ID: MW 8 @ 60 (H210731-20)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.498	99.5	0.500	1.13	
Toluene*	<0.025	0.025	03/25/2021	ND	0.493	98.6	0.500	2.27	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.501	100	0.500	1.65	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.9	1.50	2.13	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	99.7	% 81.7-11	3						
Surrogate: Toluene-d8	98.7	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	91.0	% 62.8-13	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	83.7	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	78.9	% 42.2-15	6						

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Celey D. Keine



### Analytical Results For:

GEO MONITORING SERVICES BRAD FREEMAN P. O. BOX 295 FULSHEAR TX, 77441 Fax To: NONE

 Received:
 03/23/2021
 Sampling Date:
 03/23/2021

 Reported:
 03/25/2021
 Sampling Type:
 Soil

Project Name: G STATE 4 Sampling Condition: Cool & Intact
Project Number: G STATE 4 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MONUMENT, NM

### Sample ID: MW 8 @ 70 (H210731-21)

RTFY 8260R

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	03/25/2021	ND	0.505	101	0.500	0.409	
Toluene*	<0.025	0.025	03/25/2021	ND	0.497	99.5	0.500	0.524	
Ethylbenzene*	<0.025	0.025	03/25/2021	ND	0.499	99.8	0.500	0.118	
Total Xylenes*	<0.025	0.025	03/25/2021	ND	1.48	98.5	1.50	0.365	
Total BTEX	<0.150	0.150	03/25/2021	ND					
Surrogate: Dibromofluoromethane	101	% 81.7-11	3						
Surrogate: Toluene-d8	98.8	% 84.4-11	6						
Surrogate: 4-Bromofluorobenzene	90.3	% 62.8-13	31						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	79.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	73.6	% 42.2-15	56						

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Celeg & Frence



### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

QM-07

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Relinquished By:

Time:

Received By:

Received By

ons, loss of use, or loss of profits incurred by client, its subsidiaries

All Results are emailed. Please provide Email address:

ONO

Add'l Phone #:

Time: Date:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C Observed Temp. °C

Cool Intact

A Yes A Yes

No No Sample Condition

ان

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. '

Yes Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

REMARKS:

Brad @ Gramon NOT

service. In no event shall Cardinal be liable

analyses. All claims including those for negligence and any other cause what

Relinquished B

### Page 1 of 3 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476		ANIAL VOIC DECLIECT
Company Name: Gea Monitorine	Services BILL TO	ANALIGIO ALGORO
Project Manager: Brad Freema	P.O.#: GState 4	
Address:	Company:	
	State: Zip: Attn:	
e#: 7/3-4/7-6/4	Fax #: Address: AR@geomon.	9
State L	Project Owner: City:	
me: 65+x+04	State: Zip:	5
?	Phone #:	0 !
Sampler Name:	Fax #:	8
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	Te
Lab I.D. Sample I.D.	PAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL L LUDGE THER: CID/BASE: E / COOL THER:	BTEX TPH EX Chlorid
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2 MW6020	0906	
O MWS@30	200	
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NA TOP OF	Ø 0950	
10 ANTAN OU	The second road by the clien	I C. II.

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

### Paged of 3

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(010) 030-2020 FAN (010) 030-2410	110			
Company Name:	B	BILL TO	ANA	ANALYSIS REQUEST
Project Manager:	P.O. #:			
Address:	Company:	~		7
City: State:	Zip: Attn:			
Phone #: Fax #:	Address:			
Project #: 6 State Project Owner:	City:			
Project Name:	State:	Zip:	5	
Project Location:	Phone #:		01	
Sampler Name:	Fax #:		8	
FOR LAB USE ONLY	MATRIX PRESERV	SAMPLING	e	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME BTEX	TPH EX	
Ohelinw !!	×-	3/23/2) 0953 ×	X	
13 ME 1000	Χ,	3/23/11000	X	
ot & LMW AI	×	3/23/2 1003 J	X	
O S WW		3/2/2/2/2/2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
17 MW 930	×)	3/23/21 1030 X	XX	
Oho saw 81	X.	3/23/4/033 ×	X	
05 8 8MW 61	×	3/23/2/1035	X	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In po event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, afficience of elements, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, afficience of elements and the application of elements and the application of the applications of the applications.	nt's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid ause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after upental damages, including without limitation, business interruptions, loss of use, or loss of profits furned by cl	tor torf, shall be limited to the amount paid by the client for the dreceived by Cardinal within 30 days after completion of the applicable loss of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the abrox stated reservor or themsies is based upon any of the abrox stated reservor or themsies.		
hed By:	Received By:	All Results are ema	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:	Add'I Phone #: ide Email address:
Relinquished By: Date:	Received By:	REMARKS:		
Delivered By: (Circle One) Observed Temp. °C 2.3	Sample Condition Cool Intact	CHECKED BY: Turnaround Time:	Standard P	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other: Corrected Temp. °C	lo es	Thermometer ID #113 Correction Factor None		O

### Page 3 of 3

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(3/3) 333-2326 FAA (3/3) 333-24/6	24/6			
Company Name:			BILL TO		ANALYSIS REQUEST
Project Manager:			P.O. #:		
Address:		0	Company:		
City:	State:	Zip:	Attn:		
Phone #: 65:	tate Fax #:	-	Address:		
Project #:	Project Owner:		City:	5	
Project Name:		(0)	State: Zip:	01	
Project Location:		7	Phone #:	8	
Sampler Name:		-	Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAM	SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	BTEX TPHE	
20	MWSOCO	_	(U)	XXXX	
2	MW8070		3/23/2	id4d×××	
PLEASE NOTE: Liability and Dar analyses. All claims including tho service. In no event shall Cardinal affiliates on successors arising out	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliately-dissuccessors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	any claim arising whether based in contract or to deemed waived unless made in writing and reving without limitation, business interruptions, loss Cardinal, regardless of whether such claim is by	ort, shall be limited to the amount paid ceived by Cardinal within 30 days after of use, or loss of profits incurred by coased upon any of the above stated rea	I by the client for the completion of the applicable lient, its subsidiaries, sons or otherwise	
Refinátished By:	Date: 13-21	Received By:	Jestelli	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please prov	Add'  Phone #: ide Email address:
No inquisitor by.	Time:	Neceived by:		REMARKS	
Delivered By: (Circle One)		- 40	CHE	Turnaround Time: Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus	Bus - Other: Corrected Temp. °C	N □	•	Thermometer ID #113 Correction Factor None	☐ Yes ☐ Yes



April 13, 2021

BRAD FREEMAN
GEO MONITORING SERVICES

FULSHEAR, TX 77441

RE: G STATE 4

P. O. BOX 295

Enclosed are the results of analyses for samples received by the laboratory on 03/30/21 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295

FULSHEAR TX, 77441

Project: G STATE 4

Project Number: NONE GIVEN
Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW - 6	H210785-01	Water	30-Mar-21 07:10	30-Mar-21 13:45
MW - 7	H210785-02	Water	30-Mar-21 08:10	30-Mar-21 13:45
MW - 8	H210785-03	Water	30-Mar-21 08:55	30-Mar-21 13:45
MW - 3	H210785-04	Water	30-Mar-21 12:10	30-Mar-21 13:45
MW - 4	H210785-05	Water	30-Mar-21 13:00	30-Mar-21 13:45

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### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN
Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

### MW - 6 H210785-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride*	48.0		4.00	mg/L	1	1032904	GM	01-Apr-21	4500-Cl-B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctane			81.7 %	34.5	-148	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctadecane			82.5 %	46.4	-149	1033005	MS	31-Mar-21	8015B	
Volatile Organic Compounds by	y EPA Method 8	8260B								
Benzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Toluene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Ethylbenzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total Xylenes*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total BTEX	< 0.003		0.003	mg/L	1	1040109	MS	01-Apr-21	8260B	
Surrogate: Dibromofluoromethane			103 %	82.4	-141	1040109	MS	01-Apr-21	8260B	
Surrogate: Toluene-d8			98.6 %	87.1	-110	1040109	MS	01-Apr-21	8260B	
Surrogate: 4-Bromofluorobenzene			90.4 %	76.4	-114	1040109	MS	01-Apr-21	8260B	
Polynuclear Aromatic Compou	nds by GC/MS									
Naphthalene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
2-Methylnaphthalene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
1-Methylnaphthalene	< 0.0005		0.0005	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Acenaphthylene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Acenaphthene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Fluorene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Phenanthrene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Anthracene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Carbazole*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Reported:

13-Apr-21 16:42



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

MW - 6 H210785-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Polynuclear Aromatic Compo	unds by GC/MS									
Fluoranthene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Pyrene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Benzo[a]anthracene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Chrysene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Benzo[b]flouranthene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Benzo[k]flouranthene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Benzo[a]pyrene*	< 0.0002		0.0002	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Indeno[1,2,3-cd]pyrene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Dibenz[a,h]anthracene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Benzo[g,h,i]perylene*	< 0.001		0.001	mg/L	1.02	1033111	MS	13-Apr-21	8270C	
Surrogate: Nitrobenzene-d5			39.2 %	20.3-	-96.6	1033111	MS	13-Apr-21	8270C	
Surrogate: 2-Fluorobiphenyl			39.3 %	18.9	97.9	1033111	MS	13-Apr-21	8270C	
Surrogate: Terphenyl-dl4			38.3 %	14.7	-112	1033111	MS	13-Apr-21	8270C	

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Reported:

13-Apr-21 16:42



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4
Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

### MW - 7 H210785-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride*	380		4.00	mg/L	1	1032904	GM	01-Apr-21	4500-Cl-B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctane			80.8 %	34.5	-148	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctadecane			80.6 %	46.4	-149	1033005	MS	31-Mar-21	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Toluene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Ethylbenzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total Xylenes*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total BTEX	< 0.003		0.003	mg/L	1	1040109	MS	01-Apr-21	8260B	
Surrogate: Dibromofluoromethane			103 %	82.4	-141	1040109	MS	01-Apr-21	8260B	
Surrogate: Toluene-d8			98.9 %	87.1	-110	1040109	MS	01-Apr-21	8260B	
Surrogate: 4-Bromofluorobenzene			90.4 %	76.4	-114	1040109	MS	01-Apr-21	8260B	
Polynuclear Aromatic Compou	inds by GC/MS									
Naphthalene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
2-Methylnaphthalene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
1-Methylnaphthalene	< 0.0005		0.0005	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Acenaphthylene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Acenaphthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Fluorene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Phenanthrene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Anthracene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Carbazole*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Fluoranthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN
Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

MW - 7 H210785-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Polynuclear Aromatic Compo	unds by GC/MS									
Pyrene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[a]anthracene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Chrysene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[b]flouranthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[k]flouranthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[a]pyrene*	< 0.0002		0.0002	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Indeno[1,2,3-cd]pyrene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Dibenz[a,h]anthracene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[g,h,i]perylene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Surrogate: Nitrobenzene-d5			35.1 %	20.3-	-96.6	1033111	MS	13-Apr-21	8270C	
Surrogate: 2-Fluorobiphenyl			35.1 %	18.9	-97.9	1033111	MS	13-Apr-21	8270C	
Surrogate: Terphenyl-dl4			31.0 %	14.7	-112	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene



### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN
Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

MW - 8 H210785-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride*	368		4.00	mg/L	1	1032904	GM	01-Apr-21	4500-Cl-B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctane			78.6 %	34.5	-148	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctadecane			78.4 %	46.4	-149	1033005	MS	31-Mar-21	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Toluene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Ethylbenzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total Xylenes*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total BTEX	< 0.003		0.003	mg/L	1	1040109	MS	01-Apr-21	8260B	
Surrogate: Dibromofluoromethane			104 %	82.4	-141	1040109	MS	01-Apr-21	8260B	
Surrogate: Toluene-d8			98.4 %	87.1	-110	1040109	MS	01-Apr-21	8260B	
Surrogate: 4-Bromofluorobenzene			90.6 %	76.4	-114	1040109	MS	01-Apr-21	8260B	
Polynuclear Aromatic Compou	nds by GC/MS									
Naphthalene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
2-Methylnaphthalene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
1-Methylnaphthalene	< 0.0005		0.0005	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Acenaphthylene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Acenaphthene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Fluorene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Phenanthrene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Anthracene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Carbazole*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Fluoranthene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Reported:

13-Apr-21 16:42



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### **Analytical Results For:**

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

MW - 8 H210785-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Polynuclear Aromatic Compo	unds by GC/MS									
Pyrene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Benzo[a]anthracene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Chrysene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Benzo[b]flouranthene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Benzo[k]flouranthene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Benzo[a]pyrene*	< 0.0002		0.0002	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Indeno[1,2,3-cd]pyrene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Dibenz[a,h]anthracene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Benzo[g,h,i]perylene*	< 0.001		0.001	mg/L	1.08	1033111	MS	13-Apr-21	8270C	
Surrogate: Nitrobenzene-d5			40.6 %	20.3-	96.6	1033111	MS	13-Apr-21	8270C	
Surrogate: 2-Fluorobiphenyl			40.7 %	18.9-	97.9	1033111	MS	13-Apr-21	8270C	
Surrogate: Terphenyl-dl4			39.3 %	14.7	-112	1033111	MS	13-Apr-21	8270C	

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Celey D. Keine

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13-Apr-21 16:42



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### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295

FULSHEAR TX, 77441

Project: G STATE 4

Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

### MW - 3 H210785-04 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride*	252		4.00	mg/L	1	1032904	GM	01-Apr-21	4500-Cl-B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctane			81.5 %	34.5	-148	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctadecane			81.0 %	46.4	-149	1033005	MS	31-Mar-21	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Toluene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Ethylbenzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total Xylenes*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total BTEX	< 0.003		0.003	mg/L	1	1040109	MS	01-Apr-21	8260B	
Surrogate: Dibromofluoromethane			104 %	82.4	-141	1040109	MS	01-Apr-21	8260B	
Surrogate: Toluene-d8			98.0 %	87.1	-110	1040109	MS	01-Apr-21	8260B	
Surrogate: 4-Bromofluorobenzene			92.5 %	76.4	-114	1040109	MS	01-Apr-21	8260B	
Polynuclear Aromatic Compou	inds by GC/MS									
Naphthalene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
2-Methylnaphthalene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
1-Methylnaphthalene	< 0.0005		0.0005	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Acenaphthylene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Acenaphthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Fluorene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Phenanthrene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Anthracene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Carbazole*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Fluoranthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN Project Manager: BRAD FREEMAN

Reported: 13-Apr-21 16:42

Fax To: NONE

### **MW-3** H210785-04 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Polynuclear Aromatic Compo	ounds by GC/MS									
Pyrene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[a]anthracene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Chrysene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[b]flouranthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[k]flouranthene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[a]pyrene*	< 0.0002		0.0002	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Indeno[1,2,3-cd]pyrene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Dibenz[a,h]anthracene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Benzo[g,h,i]perylene*	< 0.001		0.001	mg/L	1.03	1033111	MS	13-Apr-21	8270C	
Surrogate: Nitrobenzene-d5			36.1 %	20.3-	96.6	1033111	MS	13-Apr-21	8270C	
Surrogate: 2-Fluorobiphenyl			36.1 %	18.9-	-97.9	1033111	MS	13-Apr-21	8270C	
Surrogate: Terphenyl-dl4			32.7 %	14.7	-112	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene

Reported:

13-Apr-21 16:42



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### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

### MW - 4 H210785-05 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride*	340		4.00	mg/L	1	1032904	GM	01-Apr-21	4500-Cl-B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
DRO >C10-C28*	1.20		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctane			83.9 %	34.5	-148	1033005	MS	31-Mar-21	8015B	
Surrogate: 1-Chlorooctadecane			84.1 %	46.4	-149	1033005	MS	31-Mar-21	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	0.002		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Toluene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Ethylbenzene*	< 0.0005		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total Xylenes*	0.002		0.0005	mg/L	1	1040109	MS	01-Apr-21	8260B	
Total BTEX	0.004		0.003	mg/L	1	1040109	MS	01-Apr-21	8260B	
Surrogate: Dibromofluoromethane			102 %	82.4	-141	1040109	MS	01-Apr-21	8260B	
Surrogate: Toluene-d8			98.3 %	87.1	-110	1040109	MS	01-Apr-21	8260B	
Surrogate: 4-Bromofluorobenzene			95.5 %	76.4	-114	1040109	MS	01-Apr-21	8260B	
Polynuclear Aromatic Compou	inds by GC/MS									
Naphthalene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
2-Methylnaphthalene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
1-Methylnaphthalene	< 0.0005		0.0005	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Acenaphthylene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Acenaphthene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Fluorene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Phenanthrene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Anthracene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Carbazole*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Fluoranthene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene, Lab Director/Quality Manager



### **Analytical Results For:**

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN
Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

### MW - 4 H210785-05 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Polynuclear Aromatic Compo	unds by GC/MS									
Pyrene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Benzo[a]anthracene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Chrysene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Benzo[b]flouranthene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Benzo[k]flouranthene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Benzo[a]pyrene*	< 0.0002		0.0002	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Indeno[1,2,3-cd]pyrene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Dibenz[a,h]anthracene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Benzo[g,h,i]perylene*	< 0.001		0.001	mg/L	1.04	1033111	MS	13-Apr-21	8270C	
Surrogate: Nitrobenzene-d5			19.8 %	20.3-	96.6	1033111	MS	13-Apr-21	8270C	S-04
Surrogate: 2-Fluorobiphenyl			16.9 %	18.9	-97.9	1033111	MS	13-Apr-21	8270C	S-04
Surrogate: Terphenyl-dl4			15.7 %	14.7	-112	1033111	MS	13-Apr-21	8270C	

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Celey D. Keene



### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4
Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1032904 - General Prep - Wet Chem										
Blank (1032904-BLK1)				Prepared &	Analyzed:	29-Mar-21				
Chloride	ND	4.00	mg/L							
LCS (1032904-BS1)				Prepared &	Analyzed:	29-Mar-21				
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (1032904-BSD1)				Prepared &	Analyzed:	29-Mar-21				
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	

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Celey D. Keens



%REC

### **Analytical Results For:**

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN

Spike

Source

Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

RPD

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1033005 - General Prep - Organics										
Blank (1033005-BLK1)				Prepared: 3	30-Mar-21 A	Analyzed: 3	31-Mar-21			
GRO C6-C10	ND	1.00	mg/L							
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
Surrogate: 1-Chlorooctane	3.60		mg/L	5.00		72.0	34.5-148			
Surrogate: 1-Chlorooctadecane	3.74		mg/L	5.00		74.9	46.4-149			
LCS (1033005-BS1)				Prepared: 3	30-Mar-21 A	Analyzed: 3	31-Mar-21			
GRO C6-C10	49.6	1.00	mg/L	50.0		99.3	73.2-116			
DRO >C10-C28	52.1	1.00	mg/L	50.0		104	81.3-121			
Surrogate: 1-Chlorooctane	4.40		mg/L	5.00		88.0	34.5-148			
Surrogate: 1-Chlorooctadecane	4.53		mg/L	5.00		90.6	46.4-149			
LCS Dup (1033005-BSD1)				Prepared: 3	30-Mar-21 A	Analyzed: 3	31-Mar-21			
GRO C6-C10	50.1	1.00	mg/L	50.0		100	73.2-116	0.928	4.68	
DRO >C10-C28	52.6	1.00	mg/L	50.0		105	81.3-121	0.919	9.19	
Surrogate: 1-Chlorooctane	4.52		mg/L	5.00		90.3	34.5-148			
Surrogate: 1-Chlorooctadecane	4.62		mg/L	5.00		92.4	46.4-149			

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Celey D. Keine



0/DEC

### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN
Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

### **Cardinal Laboratories**

Analyte	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch 1040109 - Volatiles										
Blank (1040109-BLK1)				Prepared &	z Analyzed:	01-Apr-21				

Blank (1040109-BLK1)				Prepared & Anal	yzed: 01-Apr-21				
Benzene	ND	0.0005	mg/L						
Toluene	ND	0.0005	mg/L						
Ethylbenzene	ND	0.0005	mg/L						
Total Xylenes	ND	0.0005	mg/L						
Total BTEX	ND	0.003	mg/L						
Surrogate: Dibromofluoromethane	0.0257		mg/L	0.0250	103	82.4-141			
Surrogate: Toluene-d8	0.0240		mg/L	0.0250	96.2	87.1-110			
Surrogate: 4-Bromofluorobenzene	0.0234		mg/L	0.0250	93.6	76.4-114			
LCS (1040109-BS1)				Prepared & Anal	yzed: 01-Apr-21				
Benzene	0.019	0.0005	mg/L	0.0200	94.2	85.9-114			
Toluene	0.019	0.0005	mg/L	0.0200	93.8	78.8-121			
Ethylbenzene	0.019	0.0005	mg/L	0.0200	95.2	81.8-127			
m+p - Xylene	0.038	0.001	mg/L	0.0400	95.9	72.4-134			
Total Xylenes	0.057	0.0005	mg/L	0.0600	95.1	74.3-134			
o-Xylene	0.019	0.0005	mg/L	0.0200	93.5	76.2-135			
Surrogate: Dibromofluoromethane	0.0259		mg/L	0.0250	104	82.4-141			
Surrogate: Toluene-d8	0.0239		mg/L	0.0250	95.5	87.1-110			
Surrogate: 4-Bromofluorobenzene	0.0238		mg/L	0.0250	95.4	76.4-114			
LCS Dup (1040109-BSD1)				Prepared & Anal	yzed: 01-Apr-21				
Benzene	0.019	0.0005	mg/L	0.0200	93.1	85.9-114	1.23	4.14	
Toluene	0.018	0.0005	mg/L	0.0200	90.8	78.8-121	3.25	5.73	
Ethylbenzene	0.018	0.0005	mg/L	0.0200	92.2	81.8-127	3.09	4.95	
m+p - Xylene	0.037	0.001	mg/L	0.0400	93.1	72.4-134	2.94	5.81	
o-Xylene	0.018	0.0005	mg/L	0.0200	91.1	76.2-135	2.60	6.32	
Total Xylenes	0.055	0.0005	mg/L	0.0600	92.4	74.3-134	2.83	5.84	
Surrogate: Dibromofluoromethane	0.0266		mg/L	0.0250	106	82.4-141			
Surrogate: Toluene-d8	0.0242		mg/L	0.0250	97.0	87.1-110			
Surrogate: 4-Bromofluorobenzene	0.0240		mg/L	0.0250	96.2	76.4-114			

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

### Polynuclear Aromatic Compounds by GC/MS - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	1033111 - SW846-3510	)

Blank (1033111-BLK1)				Prepared: 31-Mai	r-21 Analyzed: 1	3-Apr-21	
Naphthalene	ND	0.001	mg/L				
2-Methylnaphthalene	ND	0.001	mg/L				
1-Methylnaphthalene	ND	0.0005	mg/L				
Acenaphthylene	ND	0.001	mg/L				
Acenaphthene	ND	0.001	mg/L				
Fluorene	ND	0.001	mg/L				
Phenanthrene	ND	0.001	mg/L				
Anthracene	ND	0.001	mg/L				
Carbazole	ND	0.001	mg/L				
Fluoranthene	ND	0.001	mg/L				
Pyrene	ND	0.001	mg/L				
Benzo[a]anthracene	ND	0.001	mg/L				
Chrysene	ND	0.001	mg/L				
Benzo[b]flouranthene	ND	0.001	mg/L				
Benzo[k]flouranthene	ND	0.001	mg/L				
Benzo[a]pyrene	ND	0.0002	mg/L				
Indeno[1,2,3-cd]pyrene	ND	0.001	mg/L				
Dibenz[a,h]anthracene	ND	0.001	mg/L				
Benzo[g,h,i]perylene	ND	0.001	mg/L				
Surrogate: Nitrobenzene-d5	0.0383		mg/L	0.0500	76.5	20.3-96.6	
Surrogate: 2-Fluorobiphenyl	0.0431		mg/L	0.0500	86.2	18.9-97.9	
Surrogate: Terphenyl-dl4	0.0295		mg/L	0.0500	59.0	14.7-112	
LCS (1033111-BS1)				Prepared: 31-Mai	r-21 Analyzed: 1	3-Apr-21	
Naphthalene	0.007	0.001	mg/L	0.0100	73.5	18.1-117	
2-Methylnaphthalene	0.008	0.001	mg/L	0.0100	77.8	21-115	
1-Methylnaphthalene	0.008	0.0005	mg/L	0.0100	78.3	21.2-116	
Acenaphthylene	0.009	0.001	mg/L	0.0100	85.6	24.2-119	
Acenaphthene	0.008	0.001	mg/L	0.0100	84.9	21.5-122	
Fluorene	0.008	0.001	mg/L	0.0100	83.4	22.9-124	
Phenanthrene	0.008	0.001	mg/L	0.0100	77.8	25.6-128	
Anthracene	0.008	0.001	mg/L	0.0100	79.0	27-127	

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Celey D. Keene, Lab Director/Quality Manager



%REC

### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN
Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

RPD

### Polynuclear Aromatic Compounds by GC/MS - Quality Control

### **Cardinal Laboratories**

Spike

Source

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1033111 - SW846-3510										
LCS (1033111-BS1)				Prepared: 3	31-Mar-21 A	Analyzed: 1	3-Apr-21			
Carbazole	0.008	0.001	mg/L	0.0100		84.2	26.4-128			
Fluoranthene	0.008	0.001	mg/L	0.0100		82.8	27.2-128			
Pyrene	0.009	0.001	mg/L	0.0100		86.0	19.1-137			
Benzo[a]anthracene	0.009	0.001	mg/L	0.0100		87.3	21.9-134			
Chrysene	0.008	0.001	mg/L	0.0100		83.2	22.2-133			
Benzo[b]flouranthene	0.008	0.001	mg/L	0.0100		79.4	20.4-144			
enzo[k]flouranthene	0.008	0.001	mg/L	0.0100		80.8	21.8-139			
Benzo[a]pyrene	0.008	0.0002	mg/L	0.0100		78.7	23.6-140			
ndeno[1,2,3-cd]pyrene	0.007	0.001	mg/L	0.0100		74.5	21.8-132			
Dibenz[a,h]anthracene	0.008	0.001	mg/L	0.0100		80.9	20.3-133			
Benzo[g,h,i]perylene	0.008	0.001	mg/L	0.0100		78.6	24.8-126			
urrogate: Nitrobenzene-d5	0.0417		mg/L	0.0500		83.5	20.3-96.6			
urrogate: 2-Fluorobiphenyl	0.0479		mg/L	0.0500		95.9	18.9-97.9			
urrogate: Terphenyl-dl4	0.0351		mg/L	0.0500		70.2	14.7-112			
LCS Dup (1033111-BSD1)				Prepared: 3	31-Mar-21 A	Analyzed: 1	3-Apr-21			
Naphthalene	0.007	0.001	mg/L	0.0100		74.8	18.1-117	1.75	3.46	
-Methylnaphthalene	0.008	0.001	mg/L	0.0100		76.5	21-115	1.69	4.47	
-Methylnaphthalene	0.008	0.0005	mg/L	0.0100		76.9	21.2-116	1.80	4.3	
cenaphthylene	0.009	0.001	mg/L	0.0100		86.5	24.2-119	1.05	3.88	
cenaphthene	0.008	0.001	mg/L	0.0100		83.6	21.5-122	1.54	3.77	
luorene	0.008	0.001	mg/L	0.0100		84.1	22.9-124	0.836	4.31	
henanthrene	0.008	0.001	mg/L	0.0100		80.7	25.6-128	3.66	5.04	
anthracene	0.008	0.001	mg/L	0.0100		79.5	27-127	0.631	4.49	
Carbazole	0.009	0.001	mg/L	0.0100		85.2	26.4-128	1.18	4.78	
luoranthene	0.008	0.001	mg/L	0.0100		83.2	27.2-128	0.482	6.19	
yrene	0.009	0.001	mg/L	0.0100		87.2	19.1-137	1.39	7.75	
enzo[a]anthracene	0.009	0.001	mg/L	0.0100		88.7	21.9-134	1.59	3.03	
hrysene	0.009	0.001	mg/L	0.0100		85.3	22.2-133	2.49	3.42	
enzo[b]flouranthene	0.008	0.001	mg/L	0.0100		78.0	20.4-144	1.78	6.95	
Benzo[k]flouranthene	0.008	0.001	mg/L	0.0100		79.8	21.8-139	1.25	8.16	
Benzo[a]pyrene	0.008	0.0002	mg/L	0.0100		78.0	23.6-140	0.893	3.27	

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Celey D. Keene, Lab Director/Quality Manager



%REC

### Analytical Results For:

GEO MONITORING SERVICES

P. O. BOX 295 FULSHEAR TX, 77441 Project: G STATE 4

Project Number: NONE GIVEN

Project Manager: BRAD FREEMAN

Fax To: NONE

Reported: 13-Apr-21 16:42

RPD

### Polynuclear Aromatic Compounds by GC/MS - Quality Control

### **Cardinal Laboratories**

Spike

Source

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1033111 - SW846-3510										
LCS Dup (1033111-BSD1)				Prepared: 3	31-Mar-21 A	Analyzed: 1	3-Apr-21			
Indeno[1,2,3-cd]pyrene	0.008	0.001	mg/L	0.0100		75.7	21.8-132	1.60	4.11	
Dibenz[a,h]anthracene	0.008	0.001	mg/L	0.0100		80.9	20.3-133	0.00	4.77	
Benzo[g,h,i]perylene	0.008	0.001	mg/L	0.0100		79.7	24.8-126	1.39	6.35	
Surrogate: Nitrobenzene-d5	0.0415		mg/L	0.0500		83.1	20.3-96.6			
Surrogate: 2-Fluorobiphenyl	0.0477		mg/L	0.0500		95.4	18.9-97.9			
Surrogate: Terphenyl-dl4	0.0358		mg/L	0.0500		71.6	14.7-112			

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Celey D. Keine



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	4	Page /4 of	
None of the state	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	CARDINAL	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liab analyses. All claims including those for negligence and service. In no event shall Cardinal be liable for incidents		SMMY	F MW3	3 MW S	FMW 1 MMY	TAL VICT	Lab I.D. Samp	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: ( Stark	Project #:	Phone #: 713-412-614		Address: brad h door	RATE	Company Name: (Samue)	(575) 393-2326
Observed Temp. °C 3.1 Sample Condition Cool Intact Corrected Temp. °C AYes AYes	Date: Received By:	Affiliates or successors arising out of or related to the performance of Services institutes of Services By:  Received By:  All Results	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the publication of the application of the application including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applications. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applications. So were caused to the contract of t						# CON		P. MATRIX	Fax #:	Ph	State:	Project Owner: City:	Fax #: Add	State: Zip: Attn:	Cor	3	to local	6 FAX (575) 393-2476
CHECKED BY: Turnaround Time: Standard (Initials) Thermometer ID #113 Correction Factor None		lt: ☐ Yes ☐ No re emailed. Please provi	pplicable			1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	100 S S S S S S S S S S S S S S S S S S	3/2ch 710 XX XX		BIFX PH	TREBERY. OF THE LINE	C#:	Phone #:	te: Zip:		Address:		Company:	* TR & geomenist	BILL TO	
☐ Cool Intact Observed Temp. °C ☐ Yes ☐ Yes ☐ No ☐ Corrected Temp. °C		de Email address:	Tropo #:									V									ANALYSIS REQUEST

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

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 61951

### **CONDITIONS**

Operator:	OGRID:
HESS CORPORATION	495
P.O. Box 840	Action Number:
Seminole, TX 79360	61951
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
bbillings	None	11/29/2021