

**By Nelson Velez at 9:44 am, Dec 29, 2021**

Review of 2020 Annual Report: Content satisfactory

Contractor recommendations approved by OCD and are as follows;

1. Perform additional MDPE events to remove vapor phase and liquid phase hydrocarbons from the subsurface via SVE wells
2. Perform quarterly groundwater monitoring for BTEX and chloride

2020 Annual Report

O-6 Pipeline Release
Lea County, New Mexico
1RP-5177

ETC Texas Pipeline, Ltd.





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1. Introduction

This report presents the results of semiannual groundwater monitoring and a 4-week continuous Mobile Dual Phase Extraction (MDPE) event performed during 2020 at the ETC Texas Pipeline, Ltd. (ETC), O-6 pipeline release (Site). The Site is located approximately 5 miles south of Monument, New Mexico within Unit J, Section 27, Township 20 South, Range 37 East, in Lea County, New Mexico (**Figure 1**). The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under remediation permit 1RP-1577. The surface is privately owned by the Millard Deck Estate. Site details can be seen on **Figure 2**. Initially depth to groundwater was estimated based on the most current United States Geological Survey (USGS) data from a well located approximately 0.81 miles away from the Site at 40 feet below ground surface (bgs). Drilling activities at the Site have confirmed groundwater to be approximately 53-55 feet bgs below a 2- to 3-foot-thick clay layer at approximately 50 feet bgs.

1.1 Background

The affected area at the Site was found as an open pipeline repair bell hole associated with a leak on the O-6 pipeline (**Figure 2**). The bell hole was approximately 18 feet long, by 12 feet wide, by 4 feet deep. The NMOCD was notified of the open bell hole and release in March 2018. Assessment activities at the Site began on March 28, 2018 when samples were collected from the walls of the open bell hole and from a test pit dug within the bell hole to 12 feet bgs. The samples were collected and analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B, full range total petroleum hydrocarbons (TPH) by EPA Method 8015M, and chloride by Standard Method 4500. An additional sample was collected from the same test pit at a depth of 20 feet bgs on April 8, 2018. Analytical results from both sampling events indicate that concentrations of benzene, BTEX, and TPH exceeded Site standards.

Two soil borings were advanced to continue vertical assessment to the west and in the area of the release. Both soil borings were advanced to 40 feet bgs via a hollow stem auger drill rig operated by EnviroDrill Inc. (EDI) of Albuquerque, New Mexico. The first soil boring, SB, (SB) was advanced on May 15, 2018 and located approximately 25 feet northwest and perpendicular to the release point. Soil samples were collected every 5 feet and analyzed for one or more of the following: BTEX by EPA method 8021B, full range TPH by EPA method 8015M, and chloride by EPA method 300.0. The second soil boring, SB-2, was advanced on July 31, 2018 and located approximately 15 feet northwest and perpendicular to the release point. Soil samples were collected every 5 feet beginning at 20 feet bgs and analyzed as described above.

Analytical results from samples collected from SB did not indicate the presence of any of the analyzed constituents at concentrations above Site standards. Analytical results from samples collected from SB-2 indicate concentrations of BTEX and TPH above Site standards with BTEX ranging from 90.4 mg/kg to 222 mg/kg and combined TPH gasoline range organics (GRO) and diesel range organics (DRO) ranging from 1,406 mg/kg to 2794 mg/kg, respectively. Both soil borings were backfilled with bentonite grout.



Throughout initial assessment, approximately 204 yards of impacted soil were removed from the Site and disposed of at Sundance Services. The open bell hole and test pit were subsequently backfilled with clean soil.

A summary of the May and July 2018 soil boring investigations was presented in a letter report to the NMOCD dated

September 13, 2018. The September 2018 report also included a work plan proposal to conduct additional Site characterization of both soil and groundwater by the advancement of additional soil borings and installation of monitoring and remediation wells. The work plan was approved by the NMOCD on October 19, 2018.

Delineation of soil impacts continued during November 2018 with the advancement of three hollow stem auger (HAS) soil borings and five hand auger borings. One of the HSA soil borings was completed as a soil vapor extraction well (SVE), SVE-1, and another as a groundwater monitoring well (MW), MW-1. The third soil boring, SB-2 to the north of the release point, was plugged and not completed as a well. Soil analytical results collected during the delineation effort indicated impacts of BTEX and TPH above Site standards in soil samples from the SVE-1 boring. All other soil samples collected from the HSA and hand auger borings returned analytical results of the analyzed constituents at concentrations below Site standards.

A total of three mobile SVE events were performed in 2019 on well SVE-1. Each event consisted of applying vacuum to SVE-1 for a period of approximately 8 hours. System vacuum, flow, and hydrocarbon concentrations were monitored and recorded during each event. Additionally, air samples were collected at the beginning, middle, and end of each event and sent for analysis of BTEX and TPH. Air flow had a range of approximately 50 and 55 actual cubic feet per minute (cfm) and range in vacuum of approximately 30 to 40 inches of water during maximum operation.

Soil Vapor Extraction wells, SVE-2 and SVE-3 were installed December 3 through 5, 2019 by EDI. remediation well SVE-4 and monitoring wells MW-2 and MW-3 were installed December 13 and 14, 2019 by White Drilling Co of Clyde, Texas.

2. Continuous Mobile Dual Phase Extraction

Clear Fork Consulting Services (Clear Fork) utilized a MDPE system with a patented process consisting of a modified internal combustion engine with a high vacuum knockout tank to extract and destroy fuel hydrocarbons at the Site.

On April 21, 2020, Clear Fork utilized soil vapor extraction wells SVE-1 and SVE-3 as the extraction wells during the initial 14-day recovery period. These specific wells were selected to maximize hydrocarbon recovery efforts during the event at the Site based on the presence of light non-aqueous phase liquids (LNAPL).

On May 5, 2020, one of the recovery engines was shut-down due to the decreasing hydrocarbon



recovery rates following the initial 2 weeks of operation. At this time SVE-2 was tied into the recovery unit via manifold and the engine continued to recover hydrocarbons from SVE-1, SVE-2 and SVE-3 for the remainder of the 4-week event.

The engine computers utilize built-in temperature and flow meters to measure and calculate vapor recovery within the subsurface. This recovery is measured and displayed in British Thermal Units (BTU) per hour. Using the measured BTU numbers during the event, it was determined that the MDPE system extracted and destroyed approximately 821.9 gallons of hydrocarbons extracted as vapor and 47.0 gallons of hydrocarbons extracted as liquid from. The engine(s) also recovered 613.0 gallons of hydrocarbon impacted groundwater from April 21 to May 19, 2020. The impacted groundwater was temporarily stored on Site for later disposal at a licensed disposal facility.

Three air samples were collected from influent vapor stream for the purpose of laboratory analysis. Sample Influent #1 was collected at the beginning of the recovery event on April 22, 2020 and exhibited a concentration of TPH/GRO (C6-C10) of 73,600 parts per million volume (ppmv). Influent #2 was collected within the middle of the event with a concentration of 16,900 ppmv. Finally, Influent #3 was collected at the end of the event and reported a final concentration of 14,700 ppmv. The air samples are collected as typically required by some state regulatory agencies and can aid in determining the exact gases recovered within the sub-surface. However, it should be noted that the samples collected during this event only represented a snapshot of the vapor stream at the beginning, middle and end of the 4-week event. The BTU calculation within the controller calculates the recovery continuously and is more representative of the actual recovery rates and totals. The controller collected a snapshot of the recovery every hour of the event over the course of 28 days versus just three grab samples over the same duration of time.

The results of this event are provided in detail in the Clear Fork MDPE Summary Report included as **Appendix B**.

3. 2020 Groundwater Monitoring

3.1 Groundwater Monitoring Methodology

Groundwater monitoring events were completed on April 20 and November 16, 2020. Additionally, Site wells were gauged on February 24 and July 28, 2020. An oil/water interface probe was used to measure depth to groundwater and check for the presence of LANPL in Site wells during each event. Before and after each use, the oil/water interface probe was cleaned with an Alconox®/deionized water solution and rinsed with deionized water. The presence of LNAPL was not observed in any of the monitoring wells gauged during 2020 but was observed in SVE-1 and SVE-3. Groundwater gauging data for the Site are presented in **Table 1**.

Monitoring wells MW-1, MW-2, and MW-3 were sampled during both groundwater monitoring events. Groundwater samples were placed in laboratory-prepared containers, packed on ice, and delivered under chain-of-custody to Hall Environmental Analysis Laboratory. The samples were analyzed for BTEX by EPA Method 8260 and Chlorides by EPA Method 300.0.



April and November 2020 gauging data were used to populate potentiometric surface maps (**Figure 3** and **Figure 4**), both indicating that the groundwater flow direction at the Site is to the east-southeast, which is typical of the region. Continued gauging throughout 2021 will help to verify if this is a recurrent trend in groundwater flow direction in comparison to the east-northeast flow that was observed in 2020. The groundwater gradient was calculated for the April 2020 and November 2020 monitoring events at a gradient of 0.0026 ft/ft and approximately 0.0019 ft/ft, respectively.

Concentrations of BTEX constituents in groundwater samples collected from MW-1, MW-2, and MW-3 were below the New Mexico Water Quality Control Commission (NMWQCC) standards except for benzene in MW-1 and MW-3 in April of 2020 with concentrations of 0.024 mg/L and 0.0054 mg/L, respectively. The NMWQCC standard for benzene in groundwater is 0.005 mg/L. Toluene, ethylbenzene, and xylenes were also detected in wells MW-1 and MW-3 but at concentration below NMWQCC standards.

Chloride concentrations in samples collected from the three Site monitoring wells were in exceedance of the NMWQCC standard of 250 mg/L with concentrations ranging from 2,000 to 2,200 mg/L in April and 1,600 to 2,000 mg/L in November 2020.

A summary of groundwater laboratory analytical results is presented in **Table 2**. The corresponding laboratory analytical reports from the two 2020 monitoring events are included in **Appendix A**.

4. Conclusions and 2021 Recommendations

4.1 Conclusions

The 4-week MDPE event recovered approximately 870 gallons of combined vapor and liquid hydrocarbons from the subsurface from April 21 through May 19, 2020. A total of 613 gallons of hydrocarbon-impacted groundwater was also recovered and disposed of off-Site. Performance of MDPE is effectively removing hydrocarbons from the subsurface and is minimizing the impacts to impacted groundwater at the Site.

Additionally, LNAPL continues to be present in Site wells and appears as a perched feature on top of a thin clay layer in the release area. Benzene was detected in Site wells above the NMWQCC standard during the first semiannual monitoring event in April 2020 prior to the MDPE event but was not detected during the second event in November of 2020 that occurred after MDPE was completed. Chloride was reported at concentrations exceeding the NMWQCC standard in groundwater samples collected from MW-1, MW-2, and MW-3 during both semiannual monitoring events.

4.2 2021 Recommendations

Based on the remediation and assessment activities administered to date, GHD recommends the following activities for 2021:

- Perform additional MDPE events to remove vapor phase and liquid phase hydrocarbons from the subsurface via SVE wells.
- Perform quarterly groundwater monitoring for BTEX and chloride.



All of Which is Respectfully Submitted,

GHD

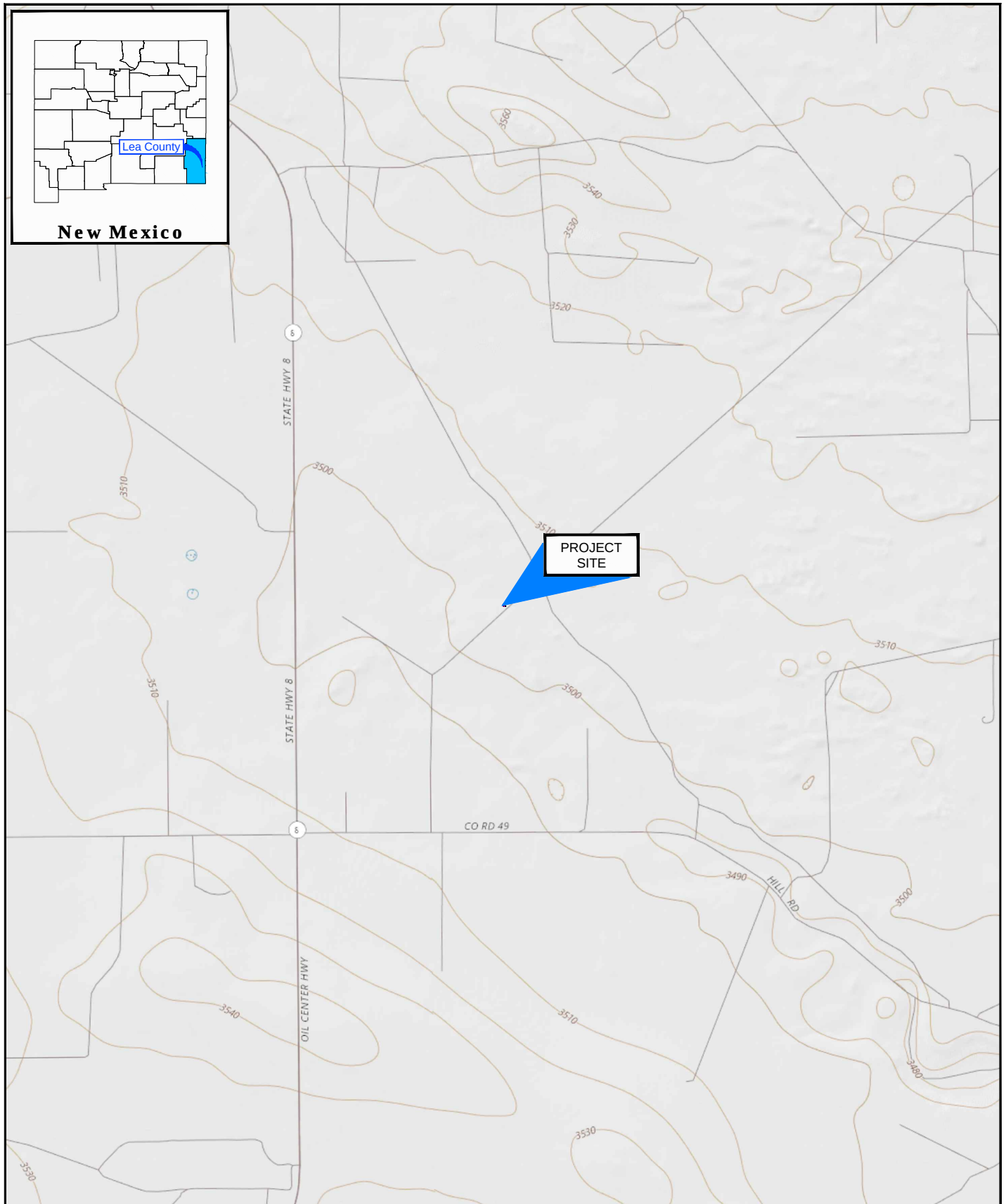
A handwritten signature in blue ink that reads "Charles Neligh". The signature is written in a cursive style with a large, prominent "C" and "N".

Charles Neligh
Project Scientist

A handwritten signature in blue ink that reads "Christine Mathews". The signature is written in a cursive style with a large, prominent "C" and "M".

Christine Mathews
Project Manager

Figures



Source: USGS 7.5 Minute Quad "Hobbs SW and Monument South, New Mexico"

Lat/Long: 32.545974° North, 103.246424° West

0 1000 2000ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

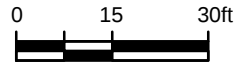


ETC TEXAS PIPELINE, LTD.
LEA COUNTY, NEW MEXICO
0-6 PIPELINE RELEASE 1RP-5177

SITE LOCATION MAP

11209234
Mar 1, 2021

FIGURE 1



Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)



ETC TEXAS PIPELINE, LTD.
LEA COUNTY, NEW MEXICO
0-6 PIPELINE RELEASE 1RP-5177

SITE DETAILS MAP

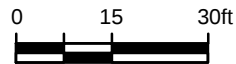
11209234
Mar 8, 2021

FIGURE 2



Source: Image © 2018 Google - Imagery Date: November 2, 2017

Lat/Long: 32.545974° North, 103.246424° West



Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)



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11209234

Mar 8, 2021

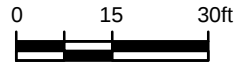
APRIL 2020 POTENTIOMETRIC SURFACE MAP

FIGURE 3



Source: Image © 2018 Google - Imagery Date: November 2, 2017

Lat/Long: 32.545974° North, 103.246424° West



Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)



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11209234

Mar 8, 2021

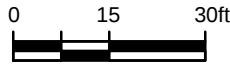
NOVEMBER 2020 POTENTIOMETRIC SURFACE MAP

FIGURE 4



Source: Image © 2018 Google - Imagery Date: November 2, 2017

Lat/Long: 32.545974° North, 103.246424° West



Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)



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LEA COUNTY, NEW MEXICO
0-6 PIPELINE RELEASE 1RP-5177

11209234
Mar 8, 2021

2020 BTEX AND CHLORIDE CONCENTRATION MAP

FIGURE 5

Tables

Table 1
Well Specifications and Groundwater Elevations
ETC Texas Pipeline, Ltd.
O-6 Pipeline Release 1RP-5177
Lea County, New Mexico

Well Number	Top of Casing (TOC) Elevation	Total Depth (ft below ground)	Screen Interval (ft below ground)	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water or Well Bottom (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-1	3,505.24	64.00	44-64	12/4/2018	-	53.26	-	3,451.98
				5/20/2019	-	52.74	-	3,452.50
				12/13/2019	-	53.11	-	3,452.13
				2/24/2020	-	52.94	-	3,452.30
				4/20/2020	-	52.86	-	3,452.38
				7/28/2020	-	53.29	-	3,451.95
				11/16/2020	-	53.60	--	3,451.64
MW-2	3,506.44	63.00	43-63	12/13/2019	-	54.32	-	3,452.12
				2/24/2020	-	54.13	-	3,452.31
				4/20/2020	-	54.03	-	3,452.41
				7/28/2020	-	54.48	-	3,451.96
				11/16/2020	-	54.80	-	3,451.64
MW-3	3,505.08	65.00	45-65	12/13/2019	-	52.84	-	3,452.24
				2/24/2020	-	52.65	-	3,452.43
				4/20/2020	-	52.55	-	3,452.53
				7/28/2020	-	53.00	-	3,452.08
				11/16/2020	-	53.31	-	3,451.77
SVE-1	3,505.21	53.00	13-53	12/4/2018	52.02	55.22	3.20	NA
				5/20/2019	51.84	55.25	3.41	NA
				12/13/2019	52.05	54.71	2.66	NA
				2/24/2020	51.93	54.69	2.76	NA
				4/20/2020	51.85	54.68	2.83	NA
				7/28/2020	52.45	54.64	2.19	NA
				11/16/2020	52.55	54.63	2.08	NA

Table 1
Well Specifications and Groundwater Elevations
ETC Texas Pipeline, Ltd.
O-6 Pipeline Release 1RP-5177
Lea County, New Mexico

Well Number	Top of Casing (TOC) Elevation	Total Depth (ft below ground)	Screen Interval (ft below ground)	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water or Well Bottom (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
SVE-2	3,504.98	50.00	15-50	12/13/2019	-	-	-	NA
				2/24/2020	-	-	-	NA
				4/20/2020	-	-	-	NA
				7/28/2020	-	-	-	NA
				11/16/2020	-	-	-	NA
SVE-3	3,505.50	51.00	16-51	12/13/2019	52.32	53.90	1.58	NA
				2/24/2020	52.23	53.85	1.62	NA
				4/20/2020	52.11	53.53	1.42	NA
				7/28/2020	52.70	53.37	0.67	NA
				11/16/2020	52.81	53.10	0.29	NA
SVE-4	3,507.49	49.00	39-49	12/13/2019	-	-	-	NA
				2/24/2020	-	-	-	NA
				4/20/2020	-	-	-	NA
				7/28/2020	-	-	-	NA
				11/16/2020	-	-	-	NA

Notes:

ft = feet

AMSL = Above mean sea level

LNAPL = Light non-aqueous phase liquid

Table 2
Groundwater Analytical Results Summary
ETC Texas Pipeline, Ltd.
O-6 Pipeline Release 1RP-5177
Lea County, New Mexico

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylene (mg/L)	Chloride (mg/L)
NMWQCC Groundwater Standards		0.005	1.0	0.7	0.62	250
MW-1	12/4/2018	<0.0010	<0.0010	<0.0010	<0.0020	1,900
	12/4/2018	<0.0010	<0.0010	<0.0010	<0.0020	1,800
	12/13/2019	0.0010	<0.0010	<0.0010	<0.0020	2,000
	4/20/2020	0.0052	<0.0010	0.0018	<0.0015	2,200
	11/16/2020	<0.0010	<0.0010	0.0018	<0.0015	2,000
MW-2	12/13/2019	<0.0010	<0.0010	<0.0010	<0.0020	1800
	4/20/2020	<0.0010	<0.0010	<0.0010	<0.0015	2000
	11/16/2020	<0.0010	<0.0010	<0.0010	<0.0015	1600
MW-3	12/13/2019	<0.0010	<0.0010	<0.0010	<0.0020	1900
	4/20/2020	0.024	0.058	0.012	0.021	2000
	11/16/2020	<0.0010	<0.0010	<0.0010	<0.0020	1800

Notes:

Concentrations in **bold** exceed the applicable NMWQCC Regulatory Limit

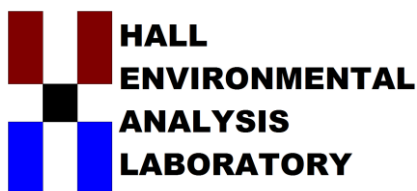
NMWQCC = New Mexico Water Quality Control Commission

mg/L- milligrams per Liter

Appendices

Appendix A

Groundwater Laboratory Analytical Reports



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 04, 2020

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: 0-6

OrderNo.: 2004A75

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/24/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2004A75

Date Reported: 5/4/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2004A75

Project: 0-6

Lab ID: 2004A75-001

Collection Date: 4/20/2020 3:30:00 PM

Client Sample ID: GW-11209234-042020-CN-MW-1

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2200	100	*	mg/L	200	4/30/2020 7:53:39 PM	R6857C
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	5.2	1.0		µg/L	1	4/27/2020 6:19:00 PM	SL6844
Toluene	ND	1.0		µg/L	1	4/27/2020 6:19:00 PM	SL6844
Ethylbenzene	1.8	1.0		µg/L	1	4/27/2020 6:19:00 PM	SL6844
Xylenes, Total	ND	1.5		µg/L	1	4/27/2020 6:19:00 PM	SL6844
Surr: 1,2-Dichloroethane-d4	89.8	70-130		%Rec	1	4/27/2020 6:19:00 PM	SL6844
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	4/27/2020 6:19:00 PM	SL6844
Surr: Dibromofluoromethane	93.1	70-130		%Rec	1	4/27/2020 6:19:00 PM	SL6844
Surr: Toluene-d8	106	70-130		%Rec	1	4/27/2020 6:19:00 PM	SL6844

Lab ID: 2004A75-002

Collection Date: 4/20/2020 5:00:00 PM

Client Sample ID: GW-11209234-042020-CN-MW-2

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	50	*	mg/L	100	4/27/2020 2:52:09 PM	R68464
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	4/27/2020 6:43:00 PM	SL6844
Toluene	ND	1.0		µg/L	1	4/27/2020 6:43:00 PM	SL6844
Ethylbenzene	ND	1.0		µg/L	1	4/27/2020 6:43:00 PM	SL6844
Xylenes, Total	ND	1.5		µg/L	1	4/27/2020 6:43:00 PM	SL6844
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	4/27/2020 6:43:00 PM	SL6844
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	4/27/2020 6:43:00 PM	SL6844
Surr: Dibromofluoromethane	92.4	70-130		%Rec	1	4/27/2020 6:43:00 PM	SL6844
Surr: Toluene-d8	104	70-130		%Rec	1	4/27/2020 6:43:00 PM	SL6844

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 2004A75

Date Reported: 5/4/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2004A75

Project: 0-6

Lab ID: 2004A75-003

Collection Date: 4/20/2020 4:20:00 PM

Client Sample ID: GW-11209234-042020-CN-MW-3

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	100	*	mg/L	200	4/30/2020 8:06:31 PM	R6857C
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	24	1.0		µg/L	1	4/27/2020 7:06:00 PM	SL6844
Toluene	58	1.0		µg/L	1	4/27/2020 7:06:00 PM	SL6844
Ethylbenzene	12	1.0		µg/L	1	4/27/2020 7:06:00 PM	SL6844
Xylenes, Total	21	1.5		µg/L	1	4/27/2020 7:06:00 PM	SL6844
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	4/27/2020 7:06:00 PM	SL6844
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	4/27/2020 7:06:00 PM	SL6844
Surr: Dibromofluoromethane	93.3	70-130		%Rec	1	4/27/2020 7:06:00 PM	SL6844
Surr: Toluene-d8	106	70-130		%Rec	1	4/27/2020 7:06:00 PM	SL6844

Lab ID: 2004A75-004

Collection Date: 4/20/2020

Client Sample ID: GW-11209234-042020-CN-DUP

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	50	*	mg/L	100	4/27/2020 3:41:47 PM	R68464
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	4/27/2020 7:30:00 PM	SL6844
Toluene	ND	1.0		µg/L	1	4/27/2020 7:30:00 PM	SL6844
Ethylbenzene	ND	1.0		µg/L	1	4/27/2020 7:30:00 PM	SL6844
Xylenes, Total	ND	1.5		µg/L	1	4/27/2020 7:30:00 PM	SL6844
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%Rec	1	4/27/2020 7:30:00 PM	SL6844
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	4/27/2020 7:30:00 PM	SL6844
Surr: Dibromofluoromethane	93.0	70-130		%Rec	1	4/27/2020 7:30:00 PM	SL6844
Surr: Toluene-d8	105	70-130		%Rec	1	4/27/2020 7:30:00 PM	SL6844

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004A75

04-May-20

Client: GHD**Project:** 0-6

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R68464	RunNo: 68464								
Prep Date:	Analysis Date: 4/27/2020	SeqNo: 2369177 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R68464	RunNo: 68464								
Prep Date:	Analysis Date: 4/27/2020	SeqNo: 2369178 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.3	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R68570	RunNo: 68570								
Prep Date:	Analysis Date: 4/30/2020	SeqNo: 2372444 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R68570	RunNo: 68570								
Prep Date:	Analysis Date: 4/30/2020	SeqNo: 2372445 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004A75

04-May-20

Client: GHD

Project: 0-6

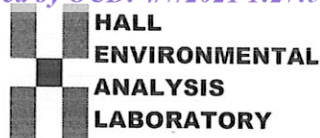
Sample ID: 100ng lcs	SampType: LCS			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: LCSW	Batch ID: SL68442			RunNo: 68442						
Prep Date:	Analysis Date: 4/27/2020			SeqNo: 2371073		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.4	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.7	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.5	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.9	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

Sample ID: MB	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch ID: SL68442			RunNo: 68442						
Prep Date:	Analysis Date: 4/27/2020			SeqNo: 2371074		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.0	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.4	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.6	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2004A75

RcptNo: 1

Received By: Juan Rojas

4/24/2020 9:20:00 AM

Juan Rojas

Completed By: Desiree Dominguez

4/24/2020 1:32:51 PM

*DD*Reviewed By: *LB**4/22/20*Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JR 4/27/20*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Not Present			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

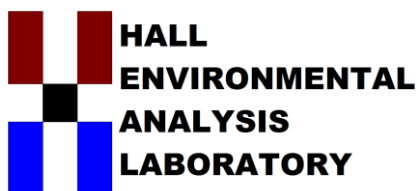
4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record									
Client: <u>GHD</u>		Turn-Around Time: ☒ Standard ☐ Rush							
Mailing Address: <u>On File</u>		Project Name: <u>0-6</u>							
Phone #: <u>805 269 0088</u>		Project #: <u>11209234</u>							
email or Fax#: <u>Christine.Mathews@ghd.com</u>		Project Manager: <u>Christine Mathews</u>							
QA/QC Package:		Sampler: <u>CW</u>							
☐ Standard		Accreditation: ☐ Az Compliance		☐ NELAC		☒ Yes ☐ No			
☐ EDD (Type) _____		# of Coolers: <u>1</u>		Cooler Temp (including CF): <u>3.2-0=3.2 (°C)</u>					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.			
4-20-20	1530	WT	60-11209234-042020-CN-MW-1	Various	Hcl	-001			
4-20-20	1700	WT	60-11209234-042020-CN-MW-2	Various	Hcl	-002			
4-20-20	1600	WT	60-11209234-042020-CN-MW-3	Various	Hcl	-003			
4-20-20	---	WT	60-11209234-042020-CN-DUP	Various	Hcl	-004			
Date:	Time:	Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Date:	Time:		
4-23-20	0800	<u>[Signature]</u>		<u>[Signature]</u>		4/23/20	0800		
Date:	Time:	Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Date:	Time:		
4/23/20	1900	<u>[Signature]</u>		<u>[Signature]</u>		4/24/20	9:20		

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

December 02, 2020

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: 0-6

OrderNo.: 2011915

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/18/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2011915

Date Reported: 12/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2011915

Project: 0-6

Lab ID: 2011915-001

Collection Date: 11/16/2020 1:30:00 PM

Client Sample ID: GW-11209234-111620-CN-MW-1

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2000	100	*	mg/L	200	11/23/2020 4:25:41 PM	R73576
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	11/19/2020 7:04:20 AM	W7347
Toluene	ND	1.0		µg/L	1	11/19/2020 7:04:20 AM	W7347
Ethylbenzene	ND	1.0		µg/L	1	11/19/2020 7:04:20 AM	W7347
Xylenes, Total	ND	1.5		µg/L	1	11/19/2020 7:04:20 AM	W7347
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	11/19/2020 7:04:20 AM	W7347
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/19/2020 7:04:20 AM	W7347
Surr: Dibromofluoromethane	104	70-130		%Rec	1	11/19/2020 7:04:20 AM	W7347
Surr: Toluene-d8	98.2	70-130		%Rec	1	11/19/2020 7:04:20 AM	W7347

Lab ID: 2011915-002

Collection Date: 11/16/2020 2:30:00 PM

Client Sample ID: GW-11209234-111620-CN-MW-2

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1600	100	*	mg/L	200	11/23/2020 4:38:34 PM	R73576
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	11/19/2020 7:31:37 AM	W7347
Toluene	ND	1.0		µg/L	1	11/19/2020 7:31:37 AM	W7347
Ethylbenzene	ND	1.0		µg/L	1	11/19/2020 7:31:37 AM	W7347
Xylenes, Total	ND	1.5		µg/L	1	11/19/2020 7:31:37 AM	W7347
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	11/19/2020 7:31:37 AM	W7347
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/19/2020 7:31:37 AM	W7347
Surr: Dibromofluoromethane	104	70-130		%Rec	1	11/19/2020 7:31:37 AM	W7347
Surr: Toluene-d8	97.8	70-130		%Rec	1	11/19/2020 7:31:37 AM	W7347

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 2011915

Date Reported: 12/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2011915

Project: 0-6

Lab ID: 2011915-003

Collection Date: 11/16/2020 2:00:00 PM

Client Sample ID: GW-11209234-111620-CN-MW-3

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1800	100	*	mg/L	200	11/23/2020 4:51:27 PM	R73576
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	11/19/2020 7:58:52 AM	W7347
Toluene	ND	1.0		µg/L	1	11/19/2020 7:58:52 AM	W7347
Ethylbenzene	ND	1.0		µg/L	1	11/19/2020 7:58:52 AM	W7347
Xylenes, Total	ND	1.5		µg/L	1	11/19/2020 7:58:52 AM	W7347
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	11/19/2020 7:58:52 AM	W7347
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/19/2020 7:58:52 AM	W7347
Surr: Dibromofluoromethane	102	70-130		%Rec	1	11/19/2020 7:58:52 AM	W7347
Surr: Toluene-d8	97.9	70-130		%Rec	1	11/19/2020 7:58:52 AM	W7347

Lab ID: 2011915-004

Collection Date: 11/16/2020

Client Sample ID: GW-11209234-111620-CN-DUP

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1500	100	*	mg/L	200	11/25/2020 1:22:16 AM	R73590
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	11/19/2020 8:26:09 AM	W7347
Toluene	ND	1.0		µg/L	1	11/19/2020 8:26:09 AM	W7347
Ethylbenzene	ND	1.0		µg/L	1	11/19/2020 8:26:09 AM	W7347
Xylenes, Total	ND	1.5		µg/L	1	11/19/2020 8:26:09 AM	W7347
Surr: 1,2-Dichloroethane-d4	99.1	70-130		%Rec	1	11/19/2020 8:26:09 AM	W7347
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	11/19/2020 8:26:09 AM	W7347
Surr: Dibromofluoromethane	111	70-130		%Rec	1	11/19/2020 8:26:09 AM	W7347
Surr: Toluene-d8	100	70-130		%Rec	1	11/19/2020 8:26:09 AM	W7347

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 2011915

Date Reported: 12/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2011915

Project: 0-6

Lab ID: 2011915-005

Collection Date:

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	11/19/2020 8:53:35 AM	W7347
Toluene	ND	1.0		µg/L	1	11/19/2020 8:53:35 AM	W7347
Ethylbenzene	ND	1.0		µg/L	1	11/19/2020 8:53:35 AM	W7347
Xylenes, Total	ND	1.5		µg/L	1	11/19/2020 8:53:35 AM	W7347
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	11/19/2020 8:53:35 AM	W7347
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	11/19/2020 8:53:35 AM	W7347
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/19/2020 8:53:35 AM	W7347
Surr: Toluene-d8	102	70-130		%Rec	1	11/19/2020 8:53:35 AM	W7347

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2011915

02-Dec-20

Client: GHD**Project:** 0-6

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R73576	RunNo: 73576								
Prep Date:	Analysis Date: 11/23/2020	SeqNo: 2592231 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R73576	RunNo: 73576								
Prep Date:	Analysis Date: 11/23/2020	SeqNo: 2592232 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.4	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R73590	RunNo: 73590								
Prep Date:	Analysis Date: 11/24/2020	SeqNo: 2593354 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R73590	RunNo: 73590								
Prep Date:	Analysis Date: 11/24/2020	SeqNo: 2593355 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2011915

02-Dec-20

Client: GHD**Project:** 0-6

Sample ID: 100ng lcs 2	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: W73477	RunNo: 73477								
Prep Date:	Analysis Date: 11/19/2020	SeqNo: 2587598	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.6	70	130			
Toluene	19	1.0	20.00	0	94.2	70	130			
Chlorobenzene	19	1.0	20.00	0	95.3	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	85.2	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	97.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.4		10.00		94.5	70	130			

Sample ID: mb2	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: W73477	RunNo: 73477								
Prep Date:	Analysis Date: 11/19/2020	SeqNo: 2587599	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011915

02-Dec-20

Client: GHD

Project: 0-6

Sample ID: mb2	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: W73477	RunNo: 73477								
Prep Date:	Analysis Date: 11/19/2020	SeqNo: 2587599	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 6 of 7

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2011915
02-Dec-20

Client: GHD
Project: 0-6

Sample ID: mb2		SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW		Batch ID: W73477		RunNo: 73477						
Prep Date:		Analysis Date: 11/19/2020		SeqNo: 2587599		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

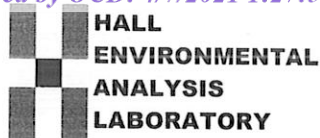
Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **GHD**Work Order Number: **2011915**RcptNo: **1**Received By: **Emily Mocho**

11/18/2020 8:00:00 AM

Completed By: **Emily Mocho**

11/18/2020 11:23:29 AM

Reviewed By: **SPA 11-18-20**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)

Adjusted?

Checked by: **SGL 11/18/20**

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			
2	2.2	Good	Yes			
3	2.5	Not Good	Yes			

Appendix B

Clear Fork MDPE Summary Report



CLEAR FORK
CONSULTING SERVICES

May 27, 2020

**Re: High Vacuum Multi-Phase Extraction (HVME)
HVME event with off-gas abatement at:
Energy Transfer Site
Monument, NM**

Clear Fork Consulting Services (Clear Fork) utilized a Mobile Dual Phase Extraction (MDPE) system with a patented process consisting of a modified Internal Combustion Engine (ICE) with a high vacuum knockout tank to extract and destroy fuel hydrocarbons at the referenced site.

On April 21, 2020, Clear Fork utilized soil vapor extraction wells SVE-1 and SVE-3 as the extraction wells during the initial fourteen (14) day recovery period. These specific wells were selected to maximize hydrocarbon recovery efforts during the event at the subject site. During the MDPE event the engines initially operated at an average of 2,000 rpms for the first 24-hour period due to elevated recovery rates initially observed at the site. Following the first day of operation, the engines were reduced to 1,800 rpms for the remainder of the initial fourteen (14) day event.

On May 5, 2020, one (1) of the recovery engines was shut-down due to the decreasing btu recovery rates following the initial two (2) weeks of operation. At this time SVE-2 was tied into the recovery unit and the engine continued to recover hydrocarbons from SVE-1, 2 and 3 for the remainder of the event.

The engine computers utilize built-in temperature and flow meters to measure and calculate vapor recovery within the subsurface. This recovery is measured and displayed in British thermal units (BTU) per hour. Using the measured BTU numbers during the event, it was determined that the MDPE system extracted and destroyed approximately 821.9 gallons of phase-separated hydrocarbons (PSH) extracted as vapor and 47.0 gallons of PSH extracted as liquid from the site. The engine(s) also recovered 613.0 gallons of hydrocarbon impacted groundwater from April 21 to May 19, 2020.

Three (3) air samples were collected from the extraction wells during the recovery events for the purpose of laboratory analysis of the influent vapor stream. Influent #1 was collected at the beginning of the recovery event on April 22, 2020 and exhibited a reported concentration of TPH/GRO (C6-C10) of 73,600 ppmv. Influent #2 was collected within the middle of the event with a concentration of 16,900 ppmv. Finally, Influent #3 was collected at the end of the event and reported a final concentration of 14,700 ppmv. The air samples are collected as required by some state regulatory agencies and can aid in determining the exact gases recovered within the sub-surface. However, it should be noted that the samples collected during this event only represented a snapshot of the vapor stream at the beginning, middle

CFCSS, LP
P.O. BOX 1327 DECATUR, TX 76234
PHONE 940-626-8088

and end of the four (4) week event. The BTU calculation within the controller calculates the recovery continuously and is more representative of the actual recovery rates and totals. The controller collected a snapshot of the recovery every hour of the event over the course of twenty-eight (28) days versus just three (3) grab samples over the same duration of time. The laboratory analytical reports are attached to this correspondence along with BTU, GRO and TPH recovery table calculations and formulas. The results of this event are discussed below and are shown on the attached figures and tables.

Event #1 – April 21-May 5, 2020 – 336.25 hours – SVE-1 and SVE-3

Soil vapor extraction wells identified as SVE-1 and SVE-3 were remediated continuously for a fourteen (14) day period from April 21-May 5, 2020. During the MDPE event the engines operated at an average of 1,800 rpms destroying 597.0 gallons of phase-separated hydrocarbons (PSH) extracted as vapor and 45.0 gallons of PSH extracted as liquid. A total of 308.0 gallons of groundwater were also recovered during this recovery period. Recovered fluids were pumped into a 250-barrel steel holding tank while the vapors were consumed and burned by the internal combustion engines.

Event #2 – May 5-May 19, 2020 – 334.0 hours – SVE-1, SVE-2 and SVE-3

Soil vapor extraction wells identified as SVE-1, SVE-2 and SVE-3 were remediated continuously for an additional fourteen (14) day period from May 5-May 19, 2020. During the MDPE event the engine operated at an average of 1,800 rpms destroying 224.9 gallons of phase-separated hydrocarbons (PSH) extracted as vapor and 2.0 gallons of PSH extracted as liquid. A total of 305.0 gallons of groundwater were also recovered during this recovery period. Recovered fluids were pumped into a 250-barrel steel holding tank while the vapors were consumed and burned by the internal combustion engines.

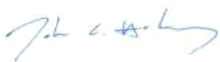
A one (1) inch stinger was installed within SVE-1, SVE-2 and SVE-3 to aid in removing hydrocarbon vapors and liquids within the subsurface. During the recovery event, the stingers within SVE-1, SVE-2 and SVE-3 were lowered to total depths of 54.68, 49.0 and 53.50 feet below the top of casing, respectively.

In conclusion, **868.9 gallons of PSH** (vapor and liquid) and **613.0 gallons of impacted groundwater** were removed from the wells while maintaining off-gas emissions at <1 lb. per event.

Please find the attached tables and figures summarizing the MDPE event.

Sincerely,

CFCS, LP



John Hanley
Project Manager

TABLES



CLEAR FORK
CONSULTING SERVICES

Cumulative Event Totals**Energy Transfer Site
Monument, TX****MDPE Event -April 21-May 19, 2020**

Duration (hours)	Date	Well Connections	LNAPL Recovery (gallons)	Vapor Recovery (gallons)	Total NAPL Recovery (gallons)	Average Well Flows (scfm)	Average Well Vacuum (In. H₂O)	Groundwater Recovery (gallons)
<u>Engine 1</u>								
336.25	April 21-May 5, 2020	SVE-1, SVE-3	22.5	299.9	322.4	17.6	172.0	154.0
334.00	May 5-May 19, 2020	SVE-1, SVE-2, SVE-3	2.0	224.9	226.9	27.9	110.9	305.0
<u>Engine 2</u>								
336.25	April 21-May 5, 2020	SVE-1, SVE-3	22.5	297.1	319.6	19.2	172.4	154.0
1006.5		Totals	47.0	821.9	<u>868.9</u>	21.6	151.8	613.0



CLEAR FORK
CONSULTING SERVICES

Controller Datapoint Summary

Energy Transfer Site
Monument, NM

ENGINE 1 - MDPE Event Summary - April 21-May 5, 2020

Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-3	4/21/2020 13:06	68	0	12	70.99	72300	326000	1997	0.0	0
	4/21/2020 14:06	65	0	13	75.29	66600	326000	1981	2.7	0
	4/21/2020 15:06	64	0	13	79.59	66100	322000	1981	5.3	1
	4/21/2020 16:06	63	0	14	79.59	60800	322000	2007	7.9	1
	4/21/2020 17:06	62	0	15	81.75	56200	318000	2024	10.5	2
	4/21/2020 18:05	60	0	16	96.8	51900	314000	1980	13.0	2
	4/21/2020 19:05	59	0	17	107.56	48100	306000	1988	15.5	3
	4/21/2020 20:05	56	0	20	133.37	40300	302000	1990	18.0	3
	4/21/2020 21:05	54	0.067	20	150.58	39500	298000	2015	20.4	4
	4/21/2020 22:05	52	0.067	21	161.34	36600	290000	1979	22.7	4
	4/21/2020 23:05	51	0.067	21	169.94	36400	286000	1998	25.1	5
	4/22/2020 0:05	52	0.067	21	165.64	36400	286000	2005	27.4	5
	4/22/2020 1:04	51	0	22	163.49	35000	290000	1950	29.8	6
	4/22/2020 2:04	50	0.067	22	167.79	35000	290000	1970	32.1	6
	4/22/2020 3:04	50	0.067	22	176.4	34200	282000	1988	34.4	7
	4/22/2020 4:04	49	0.067	23	195.76	32000	278000	2023	36.7	7
	4/22/2020 5:04	47	0.2	23	212.97	29200	254000	2031	38.7	8
	4/22/2020 6:04	49	0.2	22	212.97	29900	246000	2013	40.7	8
	4/22/2020 7:04	48	0.2	22	212.97	30300	250000	1961	42.8	9
	4/22/2020 8:03	46	0.133	23	210.82	30400	262000	1986	44.9	9
	4/22/2020 8:07	64	1.333	0	6.45	0	278000	2005	47.2	10
	4/22/2020 8:15	57	1.533	0	0	0	278000	1807	49.4	11
	4/22/2020 9:14	48	0.333	16	172.1	33000	198000	1784	51.0	11
	4/22/2020 10:14	49	0.333	16	174.25	34000	206000	1806	52.7	12
	4/22/2020 11:14	47	0.333	17	172.1	32600	206000	1735	54.4	12
	4/22/2020 12:14	47	0.267	17	174.25	33700	214000	1763	56.1	13
	4/22/2020 13:14	47	0.267	17	174.25	33500	214000	1760	57.9	13
	4/22/2020 14:14	48	0.333	17	174.25	33100	210000	1777	59.6	14
	4/22/2020 15:14	48	0.267	17	174.25	33200	214000	1835	61.3	14
	4/22/2020 16:13	47	0.333	17	174.25	32800	210000	1854	63.0	15
	4/22/2020 17:13	47	0.333	17	174.25	31900	202000	1821	64.7	15
	4/22/2020 18:13	46	0.333	17	176.4	31300	198000	1813	66.3	16
	4/22/2020 19:13	46	0.4	18	174.25	28500	194000	1808	67.8	16
	4/22/2020 20:13	45	0.4	18	174.25	27200	186000	1791	69.3	17
	4/22/2020 21:13	44	0.467	18	174.25	26100	178000	1826	70.8	17
	4/22/2020 22:13	43	0.467	18	174.25	24900	168000	1847	72.2	18
	4/22/2020 23:12	42	0.533	18	174.25	23800	162000	1845	73.5	18
	4/23/2020 0:12	42	0.467	18	174.25	23900	162000	1772	74.8	19
	4/23/2020 1:12	42	0.6	18	174.25	21900	148000	1829	76.0	19
	4/23/2020 2:12	43	0.533	17	174.25	23600	152000	1840	77.2	20
	4/23/2020 3:12	42	0.533	17	176.4	23100	148000	1830	78.4	20
	4/23/2020 4:12	42	0.6	17	174.25	22800	146000	1816	79.6	21
	4/23/2020 5:12	42	0.6	17	174.25	21500	138000	1842	80.7	21
	4/23/2020 6:11	42	0.667	17	174.25	21200	136000	1839	81.9	22
	4/23/2020 7:11	42	0.6	17	174.25	22700	146000	1748	83.0	23
	4/23/2020 8:11	41	0.6	18	174.25	22700	154000	1783	84.3	23
	4/23/2020 9:11	45	0.533	17	174.25	25400	164000	1837	85.6	24
	4/23/2020 10:11	47	0.533	17	174.25	26000	166000	1834	87.0	24
	4/23/2020 11:11	46	0.6	16	174.25	26500	160000	1759	88.3	25
	4/23/2020 12:11	47	0.533	16	174.25	27000	162000	1806	89.6	25
	4/23/2020 13:10	46	0.667	16	176.4	26100	158000	1816	90.9	26
	4/23/2020 14:10	46	0.6	16	174.25	26700	162000	1759	92.2	26
	4/23/2020 15:10	47	0.667	16	174.25	25300	152000	1786	93.4	27
	4/23/2020 16:10	47	0.667	16	174.25	25600	154000	1780	94.7	27
	4/23/2020 17:10	47	0.667	16	174.25	25800	156000	1836	96.0	28
	4/23/2020 18:10	46	0.6	16	174.25	24900	150000	1766	97.2	28
	4/23/2020 19:10	47	0.733	16	174.25	23300	140000	1803	98.3	29
	4/23/2020 20:09	43	0.733	17	174.25	20800	132000	1768	99.4	29
	4/23/2020 21:09	43	0.733	16	176.4	20500	124000	1758	100.4	30
	4/23/2020 22:09	43	0.733	16	174.25	21100	128000	1808	101.4	30
	4/23/2020 23:09	43	0.733	16	174.25	20800	126000	1763	102.5	31
	4/24/2020 0:09	42	0.733	16	174.25	19900	120000	1803	103.4	31
	4/24/2020 1:09	42	0.8	16	174.25	18900	114000	1784	104.4	32
	4/24/2020 2:09	43	0.8	16	174.25	23100	140000	1833	105.5	32
	4/24/2020 3:08	43	0.8	16	176.4	19000	114000	1793	106.4	33
	4/24/2020 4:08	43	0.733	16	174.25	19400	116000	1787	107.4	33
	4/24/2020 5:08	42	0.8	16	174.25	17800	108000	1800	108.2	34
	4/24/2020 6:08	43	0.8	16	176.4	19000	114000	1783	109.2	35
	4/24/2020 7:08	43	0.8	16	176.4	19100	114000	1774	110.1	35
	4/24/2020 8:08	44	0.733	16	174.25	21700	132000	1776	111.2	36
	4/24/2020 9:08	46	0.8	15	174.25	22000	124000	1781	112.2	36
	4/24/2020 10:07	46	0.733	15	174.25	31300	178000	1828	113.6	37
	4/24/2020 11:07	48	0.2	14	176.4	25300	134000	1815	114.7	37
	4/24/2020 12:07	48	0.2	14	174.25	34500	182000	1829	116.2	38



CLAR FORK
CONSULTING SERVICES

Controller Datapoint Summary

Energy Transfer Site
Monument, NM

ENGINE 1 - MDPE Event Summary - April 21-May 5, 2020

Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-3	4/24/2020 13:07	48	0.133	14	174.25	29200	154000	1790	117.4	38
	4/24/2020 14:07	47	0.8	14	174.25	24400	128000	1763	118.5	39
	4/24/2020 15:07	46	0.733	15	174.25	31700	180000	1825	120.0	39
	4/24/2020 16:07	47	0.8	14	174.25	24000	126000	1817	121.0	40
	4/24/2020 17:06	47	0.8	14	174.25	32700	172000	1775	122.4	40
	4/24/2020 18:06	47	0.8	14	176.4	24500	128000	1798	123.4	41
	4/24/2020 19:06	46	0.8	15	174.25	23200	132000	1823	124.5	41
	4/24/2020 20:06	44	0.8	16	174.25	19800	120000	1829	125.5	42
	4/24/2020 21:06	43	0.733	16	174.25	20100	122000	1784	126.5	42
	4/24/2020 22:06	42	0.8	17	174.25	17900	114000	1817	127.4	43
	4/24/2020 23:06	42	0.733	17	174.25	19100	122000	1798	128.4	43
	4/25/2020 0:05	42	0.8	17	174.25	17600	112000	1786	129.3	44
	4/25/2020 1:05	41	0.733	17	174.25	18400	118000	1821	130.2	44
	4/25/2020 2:05	41	0.8	17	176.4	16700	106000	1773	131.1	45
	4/25/2020 3:05	41	0.8	17	174.25	18600	120000	1794	132.1	45
	4/25/2020 4:05	40	0.867	16	174.25	14700	88000	1782	132.8	46
	4/25/2020 5:05	41	0.867	15	174.25	15000	84000	1820	133.5	47
	4/25/2020 6:05	41	0.933	15	176.4	14300	80000	1829	134.1	47
	4/25/2020 7:04	41	0.867	16	174.25	14800	88000	1829	134.8	48
	4/25/2020 8:04	43	0.067	15	174.25	37900	214000	1822	136.6	48
	4/25/2020 9:04	43	0.067	15	174.25	24100	136000	1834	137.7	49
	4/25/2020 10:04	44	0.067	15	174.25	39200	222000	1799	139.5	49
	4/25/2020 11:04	44	0.867	15	174.25	21700	122000	1783	140.5	50
	4/25/2020 12:04	45	0.867	14	174.25	19700	104000	1797	141.3	50
	4/25/2020 13:04	46	0.867	14	174.25	19500	102000	1776	142.2	51
	4/25/2020 14:03	44	0.867	15	176.4	18600	104000	1794	143.0	51
	4/25/2020 15:03	46	0.867	14	174.25	19700	104000	1821	143.9	52
	4/25/2020 16:03	46	0.867	14	174.25	19900	104000	1817	144.7	52
	4/25/2020 17:03	46	0.867	14	174.25	19400	102000	1821	145.5	53
	4/25/2020 18:03	44	0.867	15	174.25	17900	102000	1774	146.4	53
	4/25/2020 19:03	46	0.933	14	174.25	18100	96000	1819	147.1	54
	4/25/2020 20:03	44	0.867	15	176.4	17100	96000	1804	147.9	54
	4/25/2020 21:02	42	0.867	16	174.25	15800	96000	1830	148.7	55
	4/25/2020 22:02	42	0.867	16	174.25	15100	90000	1797	149.4	55
	4/25/2020 23:02	41	0.933	16	176.4	14200	86000	1815	150.1	56
	4/26/2020 0:02	41	0.933	15	176.4	14900	84000	1793	150.8	56
	4/26/2020 1:02	42	0.933	15	174.25	14900	84000	1784	151.5	57
	4/26/2020 2:02	41	0.933	16	176.4	13600	82000	1768	152.2	57
	4/26/2020 3:02	40	0.933	16	174.25	13500	82000	1791	152.8	58
	4/26/2020 4:01	40	0.933	16	174.25	12900	78000	1775	153.5	59
	4/26/2020 5:01	40	0.933	16	174.25	12800	76000	1790	154.1	59
	4/26/2020 6:01	40	0.933	16	176.4	12800	78000	1778	154.7	60
	4/26/2020 7:01	43	0.933	15	174.25	13900	78000	1817	155.3	60
	4/26/2020 8:01	44	0.933	15	174.25	15900	90000	1831	156.1	61
	4/26/2020 9:01	44	0.933	15	174.25	16500	92000	1829	156.8	61
	4/26/2020 10:01	45	0.933	14	174.25	17500	92000	1816	157.6	62
	4/26/2020 11:01	45	0.933	14	174.25	18000	94000	1770	158.3	62
	4/26/2020 12:00	46	0.933	13	176.4	19100	94000	1791	159.1	63
	4/26/2020 13:00	47	1	13	176.4	19000	92000	1820	159.9	63
	4/26/2020 14:00	47	1	13	174.25	18500	90000	1803	160.6	64
	4/26/2020 15:00	47	1	12	174.25	19600	88000	1784	161.3	64
	4/26/2020 16:00	48	1	12	174.25	19400	88000	1821	162.0	65
	4/26/2020 17:00	48	1	12	174.25	19100	86000	1791	162.7	65
	4/26/2020 18:00	48	1	12	176.4	19300	88000	1814	163.4	66
	4/26/2020 18:59	46	1	13	176.4	17700	86000	1797	164.1	66
	4/26/2020 19:59	45	1	14	176.4	16700	88000	1812	164.8	67
	4/26/2020 20:59	45	1	14	174.25	16500	86000	1798	165.5	67
	4/26/2020 21:59	45	1	14	176.4	16100	84000	1816	166.2	68
	4/26/2020 22:59	45	1	14	174.25	16100	84000	1830	166.9	68
	4/26/2020 23:59	43	1	14	174.25	15900	84000	1812	167.6	69
	4/27/2020 0:59	45	1	14	174.25	15600	82000	1818	168.3	69
	4/27/2020 1:58	44	1	14	174.25	15700	82000	1800	168.9	70
	4/27/2020 2:58	44	1	14	174.25	15800	82000	1806	169.6	71
	4/27/2020 3:58	44	1	14	174.25	15200	80000	1817	170.2	71
	4/27/2020 4:58	44	1	14	174.25	15200	80000	1801	170.9	72
	4/27/2020 5:58	43	1	14	174.25	15100	80000	1778	171.5	72
	4/27/2020 6:58	42	1	15	174.25	15200	86000	1813	172.2	73
	4/27/2020 7:58	44	1	15	174.25	15200	86000	1838	172.9	73
	4/27/2020 8:57	46	1	14	176.4	16400	86000	1809	173.6	74
	4/27/2020 9:57	46	1	14	174.25	17400	92000	1822	174.4	74
	4/27/2020 10:57	46	1	14	174.25	17200	90000	1776	175.1	75
	4/27/2020 11:57	48	1	13	174.25	18600	90000	1779	175.9	75
	4/27/2020 12:57	48	1	13	174.25	18700	92000	1830	176.6	76
	4/27/2020 13:57	48	1.067	13	176.4	18400	90000	1816	177.3	76



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SVE-1, SVE-3	4/27/2020 14:57	48	1	13	176.4	18700	92000	1811	178.1	77
	4/27/2020 15:56	46	1	14	176.4	18600	98000	1782	178.9	77
	4/27/2020 16:56	46	1	14	176.4	18200	96000	1769	179.7	78
	4/27/2020 17:56	46	1	14	174.25	18200	96000	1798	180.4	78
	4/27/2020 18:56	45	1	14	174.25	17100	90000	1817	181.2	79
	4/27/2020 19:56	44	1	15	174.25	15800	90000	1778	181.9	79
	4/27/2020 20:56	43	1	15	176.4	15600	88000	1757	182.6	80
	4/27/2020 21:56	42	1	15	174.25	15300	86000	1773	183.3	80
	4/27/2020 22:55	43	1	15	174.25	15200	86000	1777	184.0	81
	4/27/2020 23:55	42	1	15	174.25	14300	86000	1824	184.7	81
	4/28/2020 0:55	41	1	16	176.4	14300	86000	1783	185.4	82
	4/28/2020 1:55	41	0.933	16	174.25	14000	84000	1776	186.1	83
	4/28/2020 2:55	42	0.933	16	174.25	13900	84000	1823	186.8	83
	4/28/2020 3:55	42	1	15	174.25	14300	80000	1777	187.4	84
	4/28/2020 4:55	43	1	15	176.4	14400	82000	1792	188.1	84
	4/28/2020 5:54	42	1	15	174.25	14000	80000	1831	188.7	85
	4/28/2020 6:54	42	0.933	16	174.25	14300	86000	1782	189.4	85
	4/28/2020 7:54	43	0.933	16	174.25	15300	92000	1794	190.2	86
	4/28/2020 8:54	46	0.933	15	174.25	17100	96000	1826	191.0	86
	4/28/2020 9:54	47	0.933	15	174.25	18500	104000	1810	191.8	87
	4/28/2020 10:54	47	0.933	15	174.25	18300	104000	1796	192.7	87
	4/28/2020 11:54	47	0.933	15	174.25	18300	104000	1776	193.5	88
	4/28/2020 12:53	49	0.933	14	174.25	19900	104000	1820	194.4	88
	4/28/2020 13:53	48	0.933	14	174.25	19800	104000	1805	195.2	89
	4/28/2020 14:53	48	0.933	15	174.25	18500	104000	1793	196.0	89
	4/28/2020 15:53	47	0.933	15	174.25	19000	108000	1811	196.9	90
	4/28/2020 16:53	47	0.933	15	176.4	18800	106000	1782	197.8	90
	4/28/2020 17:53	46	0.933	15	176.4	18500	104000	1787	198.6	91
	4/28/2020 18:53	47	0.933	15	174.25	18100	102000	1794	199.5	91
	4/28/2020 19:52	44	0.933	16	174.25	16000	96000	1800	200.2	92
	4/28/2020 20:52	41	0.933	17	176.4	14600	94000	1787	201.0	92
	4/28/2020 21:52	44	0.933	16	174.25	15800	96000	1800	201.8	93
	4/28/2020 22:52	43	0.933	17	176.4	15000	96000	1793	202.6	94
	4/28/2020 23:52	42	0.933	17	176.4	15000	96000	1813	203.3	94
	4/29/2020 0:52	42	0.933	18	174.25	14300	98000	1835	204.1	95
	4/29/2020 1:52	41	0.867	18	176.4	14600	98000	1775	204.9	95
	4/29/2020 2:51	41	0.867	18	174.25	14700	100000	1831	205.8	96
	4/29/2020 3:51	41	0.933	18	174.25	14400	98000	1811	206.6	96
	4/29/2020 4:51	40	0.933	18	174.25	13500	92000	1838	207.3	97
	4/29/2020 5:51	39	0.933	18	176.4	13200	90000	1788	208.0	97
	4/29/2020 6:51	39	0.933	18	174.25	12700	86000	1804	208.7	98
	4/29/2020 7:51	41	0.933	17	174.25	13300	84000	1795	209.4	98
	4/29/2020 8:51	41	0.933	17	176.4	13300	86000	1824	210.1	99
	4/29/2020 9:50	42	0.933	16	176.4	14400	86000	1810	210.8	99
	4/29/2020 10:50	41	1	16	174.25	14500	88000	1773	211.5	100
	4/29/2020 11:50	41	1	17	176.4	13700	88000	1778	212.2	100
	4/29/2020 12:50	43	1	16	176.4	14300	86000	1807	212.9	101
	4/29/2020 13:50	42	0.933	18	174.25	13300	90000	1795	213.7	101
	4/29/2020 14:50	41	0.933	19	174.25	13400	96000	1785	214.5	102
	4/29/2020 15:50	40	0.933	20	174.25	12900	96000	1832	215.2	102
	4/29/2020 16:49	42	0.933	19	174.25	13300	94000	1812	216.0	103
	4/29/2020 17:49	40	0.933	19	174.25	13200	94000	1775	216.8	103
	4/29/2020 18:49	40	0.933	20	174.25	13100	94000	1794	217.5	104
	4/29/2020 19:49	38	0.933	20	176.4	12100	92000	1807	218.3	104
	4/29/2020 20:49	37	0.933	20	174.25	11300	84000	1792	219.0	105
	4/29/2020 21:49	37	0.933	20	174.25	10700	80000	1801	219.6	106
	4/29/2020 22:49	36	0.933	20	174.25	10300	78000	1812	220.2	106
	4/29/2020 23:48	37	0.933	20	174.25	9900	74000	1808	220.8	107
	4/30/2020 0:48	35	0.933	20	176.4	9800	74000	1798	221.4	107
	4/30/2020 1:48	36	0.933	20	174.25	9800	74000	1812	222.0	108
	4/30/2020 2:48	35	1	20	174.25	9400	70000	1799	222.6	108
	4/30/2020 3:48	36	1	19	174.25	9200	66000	1817	223.2	109
	4/30/2020 4:48	34	1	20	176.4	8500	64000	1779	223.7	109
	4/30/2020 5:48	33	1	20	174.25	8800	66000	1784	224.2	110
	4/30/2020 6:47	35	1	20	174.25	9300	70000	1832	224.8	110
	4/30/2020 7:47	37	0.933	20	174.25	10900	82000	1763	225.4	111
	4/30/2020 8:47	39	1	19	174.25	12100	86000	1805	226.1	111
	4/30/2020 9:47	39	1	19	174.25	11700	84000	1792	226.8	112
	4/30/2020 10:47	40	1	19	176.4	12400	88000	1786	227.5	112
	4/30/2020 11:47	41	1	19	174.25	12200	88000	1776	228.3	113
	4/30/2020 12:47	42	1	18	172.1	12800	86000	1768	229.0	113
	4/30/2020 13:46	42	1	18	174.25	13200	90000	1769	229.7	114
	4/30/2020 14:46	42	1.067	18	174.25	12900	86000	1803	230.4	114
	4/30/2020 15:46	42	1.067	18	174.25	12800	86000	1790	231.1	115



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SVE-1, SVE-3	4/30/2020 16:46	41	1.067	18	176.4	12500	84000	1791	231.8	115
	4/30/2020 17:46	42	1.067	18	174.25	12500	84000	1788	232.5	116
	4/30/2020 18:46	42	1.067	18	174.25	12100	82000	1791	233.1	116
	4/30/2020 19:46	40	1.067	19	174.25	11100	80000	1825	233.8	117
	4/30/2020 20:45	39	1	20	174.25	10900	82000	1830	234.4	118
	4/30/2020 21:45	38	1	20	174.25	10900	82000	1769	235.1	118
	4/30/2020 22:45	39	1	20	174.25	10800	80000	1826	235.8	119
	4/30/2020 23:45	40	1.067	19	174.25	10900	78000	1777	236.4	119
	5/1/2020 0:45	39	1.067	19	174.25	10900	78000	1765	237.0	120
	5/1/2020 1:45	39	1.067	19	174.25	10800	76000	1809	237.6	120
	5/1/2020 2:45	38	1.067	20	176.4	10200	76000	1766	238.3	121
	5/1/2020 3:44	38	1.067	20	174.25	10400	78000	1793	238.9	121
	5/1/2020 4:44	38	1	20	174.25	10400	78000	1802	239.5	122
	5/1/2020 5:44	38	1	20	174.25	10000	76000	1809	240.1	122
	5/1/2020 6:44	38	1	20	174.25	9800	74000	1830	240.7	123
	5/1/2020 7:44	38	1.067	20	176.4	10400	78000	1785	241.4	123
	5/1/2020 8:44	41	1.067	19	176.4	11300	80000	1822	242.0	124
	5/1/2020 9:44	41	1.067	19	174.25	11200	80000	1791	242.7	124
	5/1/2020 10:43	42	1.067	19	174.25	12000	86000	1776	243.4	125
	5/1/2020 11:43	43	1.067	19	176.4	12100	86000	1805	244.1	125
	5/1/2020 12:43	43	1.067	19	174.25	12400	88000	1824	244.8	126
	5/1/2020 13:43	43	1.067	19	176.4	12600	90000	1810	245.5	126
	5/1/2020 14:43	41	1.067	21	176.4	12100	96000	1783	246.3	127
	5/1/2020 15:43	41	1.067	21	174.25	12000	96000	1783	247.1	127
	5/1/2020 16:43	41	1.067	21	174.25	12100	96000	1793	247.9	128
	5/1/2020 17:42	41	1.067	20	174.25	12000	90000	1824	248.6	128
	5/1/2020 18:42	42	1.067	20	174.25	11600	88000	1791	249.3	129
	5/1/2020 19:42	41	1.067	19	174.25	11100	80000	1785	250.0	130
	5/1/2020 20:42	40	1.067	19	176.4	10800	78000	1790	250.6	130
	5/1/2020 21:42	41	1.067	19	174.25	10500	74000	1826	251.2	131
	5/1/2020 22:42	38	1.067	20	176.4	9600	72000	1798	251.8	131
	5/1/2020 23:42	38	1.067	20	174.25	9400	70000	1782	252.4	132
	5/2/2020 0:41	38	1.067	21	174.25	9600	76000	1826	253.0	132
	5/2/2020 1:41	38	1.067	20	176.4	9700	74000	1829	253.6	133
	5/2/2020 2:41	37	1.067	21	174.25	9100	72000	1834	254.2	133
	5/2/2020 3:41	37	1.067	21	176.4	8500	68000	1836	254.7	134
	5/2/2020 4:41	37	1.067	21	176.4	7600	60000	1792	255.2	134
	5/2/2020 5:41	35	1.067	21	176.4	7500	60000	1774	255.7	135
	5/2/2020 6:41	35	1.067	21	176.4	7800	62000	1803	256.2	135
	5/2/2020 7:40	37	1.067	21	176.4	9100	72000	1772	256.8	136
	5/2/2020 8:40	40	1.067	20	174.25	10100	76000	1772	257.4	136
	5/2/2020 9:40	40	1.067	21	174.25	10500	82000	1801	258.1	137
	5/2/2020 10:40	41	1.067	21	174.25	10500	84000	1785	258.7	137
	5/2/2020 11:40	41	1.067	21	174.25	10800	86000	1789	259.4	138
	5/2/2020 12:40	41	1.067	21	174.25	11000	86000	1835	260.1	138
	5/2/2020 13:40	41	1.067	21	176.4	11000	88000	1794	260.9	139
	5/2/2020 14:39	40	1.067	21	174.25	11200	88000	1806	261.6	139
	5/2/2020 15:39	41	1.067	21	176.4	11300	90000	1810	262.3	140
	5/2/2020 16:39	41	1.067	21	174.25	11200	88000	1808	263.0	140
	5/2/2020 17:39	40	1.067	21	174.25	10800	86000	1806	263.7	141
	5/2/2020 18:39	40	1.067	21	174.25	10500	84000	1779	264.4	142
	5/2/2020 19:39	40	1.067	21	174.25	10300	82000	1812	265.1	142
	5/2/2020 20:39	38	1.067	21	174.25	9400	74000	1806	265.7	143
	5/2/2020 21:38	37	1.067	21	174.25	8700	68000	1776	266.2	143
	5/2/2020 22:38	38	1.067	21	174.25	8900	70000	1771	266.8	144
	5/2/2020 23:38	40	1.133	19	174.25	9100	66000	1777	267.3	144
	5/3/2020 0:38	39	1.133	20	176.4	8700	64000	1812	267.9	145
	5/3/2020 1:38	37	1.067	21	176.4	8700	68000	1817	268.4	145
	5/3/2020 2:38	36	1.067	21	174.25	8400	66000	1769	268.9	146
	5/3/2020 3:38	37	1.133	21	174.25	7700	60000	1789	269.4	146
	5/3/2020 4:37	36	1.133	21	174.25	7500	58000	1804	269.9	147
	5/3/2020 5:37	35	1.133	21	174.25	7200	56000	1822	270.4	147
	5/3/2020 6:37	35	1.133	21	176.4	7300	58000	1806	270.8	148
	5/3/2020 7:37	36	1.133	21	174.25	8400	66000	1806	271.4	148
	5/3/2020 8:37	38	1.133	22	176.4	8900	74000	1802	272.0	149
	5/3/2020 9:37	39	1.133	21	174.25	9600	76000	1818	272.6	149
	5/3/2020 10:37	39	1.133	22	174.25	9300	78000	1834	273.2	150
	5/3/2020 11:36	39	1.133	22	176.4	9600	80000	1832	273.9	150
	5/3/2020 12:36	41	1.133	21	174.25	10200	80000	1829	274.5	151
	5/3/2020 13:36	40	1.133	21	174.25	10400	82000	1801	275.2	151
	5/3/2020 14:36	41	1.133	21	174.25	10400	82000	1774	275.9	152
	5/3/2020 15:36	41	1.133	21	174.25	10400	82000	1797	276.5	152
	5/3/2020 16:36	40	1.133	21	174.25	10200	80000	1788	277.2	153
	5/3/2020 17:36	40	1.133	21	174.25	10100	80000	1774	277.8	154



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SVE-1, SVE-3	5/3/2020 18:35	41	1.133	21	174.25	9800	78000	1817	278.5	154
	5/3/2020 19:35	40	1.133	21	174.25	9500	74000	1807	279.1	155
	5/3/2020 20:35	39	1.133	21	174.25	8700	68000	1822	279.6	155
	5/3/2020 21:35	36	1.133	22	174.25	8100	68000	1783	280.2	156
	5/3/2020 22:35	38	1.133	21	174.25	8000	62000	1830	280.7	156
	5/3/2020 23:35	38	1.133	21	174.25	8200	64000	1813	281.2	157
	5/4/2020 0:35	38	1.133	21	176.4	8100	64000	1819	281.7	157
	5/4/2020 1:34	37	1.133	22	174.25	7600	64000	1781	282.2	158
	5/4/2020 2:34	37	1.133	21	174.25	7900	62000	1765	282.7	158
	5/4/2020 3:34	38	1.133	20	174.25	7800	58000	1831	283.2	159
	5/4/2020 4:34	37	1.133	20	174.25	7900	60000	1802	283.7	159
	5/4/2020 5:34	37	1.133	20	174.25	7000	52000	1759	284.1	160
	5/4/2020 6:34	38	1.2	20	174.25	6900	52000	1789	284.5	160
	5/4/2020 7:34	37	1.133	21	174.25	7900	62000	1775	285.0	161
	5/4/2020 8:33	40	1.2	20	174.25	8600	64000	1819	285.6	161
	5/4/2020 9:33	42	1.2	19	174.25	9300	66000	1819	286.1	162
	5/4/2020 10:33	43	1.2	19	174.25	9200	66000	1836	286.6	162
	5/4/2020 11:33	43	1.2	18	174.25	10100	68000	1775	287.2	163
	5/4/2020 12:33	44	1.2	19	174.25	10000	72000	1787	287.8	163
	5/4/2020 13:33	44	1.2	18	174.25	10300	70000	1770	288.3	164
	5/4/2020 14:33	43	1.2	19	174.25	9900	70000	1796	288.9	164
	5/4/2020 15:32	42	1.2	19	176.4	10300	74000	1793	289.5	165
	5/4/2020 16:32	42	1.2	20	176.4	10000	74000	1824	290.1	166
	5/4/2020 17:32	42	1.2	20	174.25	10100	76000	1773	290.7	166
	5/4/2020 18:32	41	1.2	21	174.25	9200	72000	1780	291.3	167
	5/4/2020 19:32	39	1.2	21	174.25	8700	68000	1821	291.9	167
	5/4/2020 20:32	38	1.2	21	176.4	7900	62000	1794	292.4	168
	5/4/2020 21:32	38	1.2	21	174.25	7400	58000	1782	292.8	168
	5/4/2020 22:31	37	1.133	22	174.25	7200	60000	1823	293.3	169
	5/4/2020 23:31	37	1.2	21	174.25	7100	56000	1838	293.8	169
	5/5/2020 0:31	37	1.2	20	176.4	6600	50000	1830	294.2	170
	5/5/2020 1:31	37	1.2	22	174.25	7000	58000	1774	294.7	170
	5/5/2020 2:31	36	1.2	22	174.25	7200	60000	1771	295.2	171
	5/5/2020 3:31	36	1.2	22	174.25	6900	56000	1821	295.6	171
	5/5/2020 4:31	36	1.2	22	174.25	6900	58000	1775	296.1	172
	5/5/2020 5:30	35	1.133	22	174.25	7000	58000	1809	296.6	172
	5/5/2020 6:30	35	1.2	22	174.25	6100	50000	1818	297.0	173
	5/5/2020 7:30	36	1.133	21	174.25	6700	52000	1764	297.4	173
	5/5/2020 8:30	39	1.2	19	174.25	7300	52000	1792	297.8	174
	5/5/2020 9:30	38	1.2	19	176.4	7300	52000	1756	298.2	174
	5/5/2020 10:30	38	1.2	19	174.25	7400	52000	1801	298.7	175
	5/5/2020 11:30	40	1.2	19	174.25	7200	52000	1791	299.1	175
	5/5/2020 12:29	40	1.2	19	174.25	7400	52000	1839	299.5	176
	5/5/2020 13:13	57	1.467	0	4.3	0	50000	1793	299.9	177
		42.74	0.88	17.60	172.04	16869.32	109452.94			



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SVE-1, SVE-2, SVE-3	5/5/2020 15:32	32	1.133	29	86.05	8200	90000	1836	0.0	0
	5/5/2020 16:32	32	1.067	28	86.05	8300	88000	1811	0.7	1
	5/5/2020 17:32	32	1.067	28	88.2	8400	88000	1820	1.4	2
	5/5/2020 18:32	32	1.067	28	90.35	8400	88000	1791	2.1	3
	5/5/2020 19:32	31	1.067	27	90.35	8200	84000	1822	2.8	4
	5/5/2020 20:32	32	1.067	26	92.5	8000	78000	1816	3.5	5
	5/5/2020 21:31	30	1.067	26	92.5	7500	74000	1770	4.1	6
	5/5/2020 22:31	31	1.067	26	92.5	7600	74000	1845	4.7	7
	5/5/2020 23:31	31	1.067	26	92.5	7600	74000	1822	5.3	7
	5/6/2020 0:31	30	1.067	26	92.5	7200	70000	1785	5.8	8
	5/6/2020 1:31	30	1.067	26	94.65	7200	70000	1810	6.4	9
	5/6/2020 2:31	29	1.067	26	94.65	6900	68000	1792	7.0	10
	5/6/2020 3:31	28	1.133	26	96.8	6700	66000	1793	7.5	11
	5/6/2020 4:30	29	1.067	26	96.8	6700	66000	1762	8.0	12
	5/6/2020 5:30	30	1.067	26	98.96	6700	66000	1816	8.6	13
	5/6/2020 6:30	30	1.133	26	96.8	6600	64000	1835	9.1	14
	5/6/2020 7:30	31	1.067	26	94.65	7500	74000	1825	9.7	15
	5/6/2020 8:30	30	1.133	27	107.56	7100	72000	1842	10.3	16
	5/6/2020 9:30	31	1.067	27	111.86	8400	84000	1830	11.0	17
	5/6/2020 10:30	31	1.067	28	118.32	8700	92000	1827	11.7	17
	5/6/2020 11:29	31	1.067	29	116.16	8300	90000	1802	12.4	18
	5/6/2020 12:29	29	1.067	29	118.32	8500	96000	1795	13.2	19
	5/6/2020 13:29	30	1.067	30	118.32	8600	98000	1768	14.0	20
	5/6/2020 14:29	31	1.067	30	118.32	8700	98000	1834	14.8	21
	5/6/2020 15:29	31	1.067	30	116.16	8900	102000	1825	15.6	22
	5/6/2020 16:29	30	1.067	30	116.16	8800	100000	1764	16.5	23
	5/6/2020 17:29	32	1.067	29	116.16	9100	100000	1784	17.3	24
	5/6/2020 18:28	31	1.067	29	116.16	8600	94000	1771	18.0	25
	5/6/2020 19:28	32	1.067	28	114.01	8500	90000	1815	18.8	26
	5/6/2020 20:28	31	1.067	27	111.86	8300	84000	1763	19.4	27
	5/6/2020 21:28	31	1.067	27	109.71	8300	84000	1771	20.1	27
	5/6/2020 22:28	31	1.067	27	109.71	8100	82000	1821	20.8	28
	5/6/2020 23:28	30	1.067	27	111.86	8100	82000	1801	21.5	29
	5/7/2020 0:28	30	1.067	27	111.86	7900	80000	1770	22.1	30
	5/7/2020 1:27	30	1.067	27	107.56	7600	78000	1808	22.7	31
	5/7/2020 2:27	30	1.067	27	109.71	7700	78000	1813	23.4	32
	5/7/2020 3:27	30	1.067	27	111.86	7900	80000	1821	24.0	33
	5/7/2020 4:27	30	1.067	27	109.71	7900	80000	1828	24.7	34
	5/7/2020 5:27	30	1.067	27	109.71	7500	76000	1769	25.3	35
	5/7/2020 6:27	30	1.067	27	111.86	7500	76000	1825	25.9	36
	5/7/2020 7:27	31	1.067	28	114.01	8200	86000	1799	26.6	37
	5/7/2020 8:26	31	1.067	28	116.16	8300	88000	1776	27.3	37
	5/7/2020 9:26	31	1.067	29	114.01	8700	94000	1781	28.1	38
	5/7/2020 10:26	32	1.067	30	118.32	9200	104000	1808	28.9	39
	5/7/2020 11:26	32	1	30	120.47	9800	110000	1778	29.8	40
	5/7/2020 12:26	31	1.067	31	122.62	9600	112000	1763	30.7	41
	5/7/2020 13:26	31	1	31	124.77	10000	118000	1789	31.7	42
	5/7/2020 14:26	32	1	31	120.47	10300	120000	1808	32.7	43
	5/7/2020 15:25	33	1	30	118.32	10300	118000	1817	33.6	44
	5/7/2020 16:25	33	1.067	30	118.32	10000	112000	1771	34.6	45
	5/7/2020 17:25	33	1	30	120.47	10100	114000	1801	35.5	46
	5/7/2020 18:25	32	1.067	30	116.16	9700	110000	1798	36.4	47
	5/7/2020 19:25	32	1.067	29	114.01	9400	104000	1790	37.2	47
	5/7/2020 20:25	32	1.067	28	111.86	8900	94000	1788	38.0	48
	5/7/2020 21:25	32	1.133	27	109.71	8200	84000	1823	38.7	49
	5/7/2020 22:24	31	1.067	27	111.86	8100	82000	1758	39.3	50
	5/7/2020 23:24	31	1.067	27	114.01	8500	86000	1763	40.0	51
	5/8/2020 0:24	32	1.067	27	114.01	8100	82000	1791	40.7	52
	5/8/2020 1:24	31	1.067	27	111.86	8400	86000	1765	41.4	53
	5/8/2020 2:24	31	1.067	27	111.86	8200	82000	1826	42.1	54
	5/8/2020 3:24	32	1.067	27	111.86	7900	80000	1841	42.7	55
	5/8/2020 4:24	31	1.067	26	111.86	7600	74000	1760	43.3	56
	5/8/2020 5:23	31	1.067	26	109.71	7500	74000	1811	43.9	57
	5/8/2020 6:23	30	1.067	26	109.71	7100	70000	1822	44.5	57
	5/8/2020 7:23	30	1.067	26	109.71	7400	72000	1780	45.1	58
	5/8/2020 8:23	29	1.067	27	111.86	7400	76000	1776	45.7	59
	5/8/2020 9:23	30	1.067	27	109.71	7700	78000	1829	46.3	60
	5/8/2020 10:23	30	1.067	27	111.86	8100	82000	1777	47.0	61
	5/8/2020 11:23	29	1.067	28	111.86	8200	86000	1786	47.7	62
	5/8/2020 12:22	30	1.067	28	111.86	8200	86000	1814	48.4	63
	5/8/2020 13:22	30	1.067	28	114.01	8300	88000	1813	49.1	64
	5/8/2020 14:22	31	1.067	28	114.01	8000	84000	1832	49.8	65
	5/8/2020 15:22	29	1.067	28	116.16	8300	88000	1790	50.5	66
	5/8/2020 16:22	31	1.067	28	116.16	8100	86000	1786	51.2	67



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SVE-1, SVE-2, SVE-3	5/8/2020 17:22	30	1.067	28	114.01	8100	86000	1815	51.9	67
	5/8/2020 18:22	31	1.067	27	111.86	8300	84000	1819	52.6	68
	5/8/2020 19:21	29	1.067	27	107.56	7600	76000	1784	53.2	69
	5/8/2020 20:21	30	1.133	26	109.71	7200	70000	1777	53.8	70
	5/8/2020 21:21	30	1.133	26	109.71	6600	64000	1767	54.3	71
	5/8/2020 22:21	30	1.133	26	114.01	6500	64000	1819	54.8	72
	5/8/2020 23:21	29	1.133	26	109.71	6500	64000	1782	55.3	73
	5/9/2020 0:21	30	1.133	26	109.71	6500	64000	1816	55.9	74
	5/9/2020 1:21	29	1.133	26	111.86	6300	62000	1777	56.4	75
	5/9/2020 2:20	29	1.133	26	114.01	6300	62000	1760	56.9	76
	5/9/2020 3:20	28	1.133	26	109.71	6100	60000	1818	57.3	77
	5/9/2020 4:20	29	1.133	26	111.86	6000	58000	1788	57.8	77
	5/9/2020 5:20	27	1.133	26	109.71	5800	56000	1777	58.3	78
	5/9/2020 6:20	28	1.133	26	111.86	5600	54000	1829	58.7	79
	5/9/2020 7:20	29	1.067	26	109.71	6500	64000	1768	59.2	80
	5/9/2020 8:20	29	1.067	27	111.86	7200	74000	1777	59.8	81
	5/9/2020 9:20	30	1.067	27	111.86	7800	80000	1802	60.5	82
	5/9/2020 10:19	31	1.067	28	111.86	8200	86000	1831	61.2	83
	5/9/2020 11:19	31	1.067	28	111.86	8400	90000	1840	61.9	84
	5/9/2020 12:19	31	1.067	29	114.01	8500	94000	1826	62.7	85
	5/9/2020 13:19	31	1.067	29	114.01	8700	94000	1770	63.4	86
	5/9/2020 14:19	30	1.067	30	116.16	8800	100000	1795	64.3	87
	5/9/2020 15:19	32	1.067	29	116.16	8900	98000	1823	65.1	88
	5/9/2020 16:19	32	1.067	29	116.16	8700	96000	1829	65.8	88
	5/9/2020 17:18	30	1.067	29	114.01	8600	94000	1795	66.6	89
	5/9/2020 18:18	31	1.067	28	114.01	8800	92000	1804	67.3	90
	5/9/2020 19:18	31	1.067	28	111.86	8200	86000	1819	68.0	91
	5/9/2020 20:18	31	1.067	27	109.71	8100	82000	1794	68.7	92
	5/9/2020 21:18	30	1.067	26	107.56	7800	78000	1822	69.3	93
	5/9/2020 22:18	32	1.067	26	109.71	7800	76000	1789	70.0	94
	5/9/2020 23:18	30	1.067	26	109.71	7500	74000	1763	70.6	95
	5/10/2020 0:17	30	1.067	26	109.71	7300	72000	1772	71.2	96
	5/10/2020 1:17	31	1.133	26	109.71	7100	70000	1822	71.7	97
	5/10/2020 2:17	29	1.133	26	109.71	6900	68000	1791	72.3	98
	5/10/2020 3:17	30	1.133	26	111.86	6900	66000	1778	72.8	98
	5/10/2020 4:17	29	1.133	26	111.86	6600	64000	1770	73.3	99
	5/10/2020 5:17	30	1.133	26	109.71	6500	64000	1812	73.9	100
	5/10/2020 6:17	30	1.133	26	109.71	6600	64000	1807	74.4	101
	5/10/2020 7:16	30	1.067	26	111.86	6800	66000	1824	74.9	102
	5/10/2020 8:16	30	1.067	27	111.86	7100	72000	1792	75.5	103
	5/10/2020 9:16	30	1.067	27	114.01	7500	76000	1818	76.1	104
	5/10/2020 10:16	31	1.067	27	111.86	7700	78000	1813	76.7	105
	5/10/2020 11:16	28	1.067	28	114.01	7800	82000	1776	77.4	106
	5/10/2020 12:16	30	1.067	29	116.16	8100	88000	1772	78.1	107
	5/10/2020 13:16	31	1.067	29	116.16	8200	90000	1778	78.9	108
	5/10/2020 14:15	30	1.067	29	114.01	8300	92000	1799	79.6	108
	5/10/2020 15:15	31	1.067	29	116.16	8300	90000	1790	80.3	109
	5/10/2020 16:15	30	1.067	29	114.01	8100	88000	1821	81.1	110
	5/10/2020 17:15	31	1.067	29	114.01	8100	88000	1830	81.8	111
	5/10/2020 18:15	31	1.067	28	111.86	8100	86000	1773	82.5	112
	5/10/2020 19:15	30	1.067	28	109.71	7700	80000	1785	83.1	113
	5/10/2020 20:15	30	1.067	27	111.86	7900	80000	1789	83.8	114
	5/10/2020 21:14	31	1.133	27	109.71	7600	78000	1805	84.4	115
	5/10/2020 22:14	31	1.133	27	109.71	7500	76000	1790	85.0	116
	5/10/2020 23:14	31	1.133	27	107.56	7300	74000	1779	85.6	117
	5/11/2020 0:14	30	1.133	27	109.71	6900	70000	1798	86.2	118
	5/11/2020 1:14	31	1.133	26	109.71	7200	70000	1830	86.8	118
	5/11/2020 2:14	31	1.133	26	109.71	7100	70000	1801	87.3	119
	5/11/2020 3:14	31	1.133	26	109.71	6700	66000	1836	87.9	120
	5/11/2020 4:13	30	1.133	26	109.71	6500	64000	1823	88.4	121
	5/11/2020 5:13	31	1.133	26	109.71	6700	66000	1797	88.9	122
	5/11/2020 6:13	29	1.133	26	109.71	6500	64000	1775	89.4	123
	5/11/2020 7:13	28	1.133	27	116.16	7000	70000	1795	90.0	124
	5/11/2020 8:13	30	1.067	27	109.71	7600	78000	1768	90.7	125
	5/11/2020 9:13	31	1.067	28	111.86	7900	82000	1794	91.3	126
	5/11/2020 10:13	31	1.067	28	111.86	8100	86000	1830	92.0	127
	5/11/2020 11:12	31	1.067	28	111.86	8300	88000	1760	92.7	128
	5/11/2020 12:12	31	1.067	29	116.16	8600	94000	1783	93.5	128
	5/11/2020 13:12	33	1.067	29	114.01	8700	96000	1809	94.3	129
	5/11/2020 14:12	32	1.067	29	116.16	8800	96000	1795	95.1	130
	5/11/2020 15:12	31	1.067	29	114.01	8600	94000	1805	95.8	131
	5/11/2020 16:12	32	1.067	29	114.01	8700	96000	1833	96.6	132
	5/11/2020 17:12	32	1.067	28	111.86	8700	92000	1832	97.3	133
	5/11/2020 18:11	32	1.133	28	111.86	8300	88000	1775	98.1	134



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SVE-1, SVE-2, SVE-3	5/11/2020 19:11	31	1.133	28	111.86	8200	86000	1768	98.8	135
	5/11/2020 20:11	31	1.133	27	109.71	7900	80000	1814	99.4	136
	5/11/2020 21:11	31	1.133	27	109.71	7800	80000	1773	100.1	137
	5/11/2020 22:11	31	1.133	27	109.71	7600	78000	1783	100.7	138
	5/11/2020 23:11	31	1.133	27	109.71	7600	78000	1815	101.3	138
	5/12/2020 0:11	31	1.133	27	109.71	7700	78000	1758	102.0	139
	5/12/2020 1:10	30	1.133	27	109.71	7200	74000	1777	102.6	140
	5/12/2020 2:10	29	1.133	27	109.71	6900	70000	1769	103.1	141
	5/12/2020 3:10	31	1.133	26	109.71	6700	68000	1832	103.7	142
	5/12/2020 4:10	29	1.133	27	114.01	6400	64000	1810	104.2	143
	5/12/2020 5:10	30	1.133	26	109.71	6200	60000	1831	104.7	144
	5/12/2020 6:10	28	1.133	27	114.01	5800	60000	1794	105.2	145
	5/12/2020 7:10	31	1.133	26	109.71	7300	72000	1779	105.8	146
	5/12/2020 8:09	31	1.133	28	111.86	7900	82000	1796	106.4	147
	5/12/2020 9:09	31	1.067	29	114.01	8300	90000	1810	107.2	148
	5/12/2020 10:09	32	1.133	29	114.01	8600	94000	1819	107.9	148
	5/12/2020 11:09	33	1.133	30	116.16	8800	100000	1804	108.7	149
	5/12/2020 12:09	33	1.133	30	116.16	8900	102000	1769	109.6	150
	5/12/2020 13:09	31	1.133	31	118.32	8700	102000	1825	110.4	151
	5/12/2020 14:09	32	1.133	31	116.16	8700	102000	1792	111.2	152
	5/12/2020 15:08	31	1.133	30	114.01	8900	100000	1800	112.0	153
	5/12/2020 16:08	32	1.067	30	116.16	8900	102000	1831	112.9	154
	5/12/2020 17:08	33	1.067	29	111.86	9200	100000	1830	113.7	155
	5/12/2020 18:08	32	1.133	30	114.01	8700	98000	1836	114.5	156
	5/12/2020 19:08	34	1.133	28	109.71	8600	92000	1836	115.2	157
	5/12/2020 20:08	32	1.133	27	105.41	8100	82000	1804	115.9	158
	5/12/2020 21:08	33	1.133	27	107.56	8100	82000	1817	116.6	158
	5/12/2020 22:07	33	1.133	27	109.71	8000	82000	1826	117.2	159
	5/12/2020 23:07	32	1.133	27	109.71	8000	82000	1809	117.9	160
	5/13/2020 0:07	31	1.133	28	111.86	7700	80000	1801	118.6	161
	5/13/2020 1:07	32	1.133	27	109.71	7700	78000	1822	119.2	162
	5/13/2020 2:07	32	1.133	27	111.86	7700	78000	1782	119.8	163
	5/13/2020 3:07	32	1.133	27	109.71	7600	78000	1846	120.5	164
	5/13/2020 4:07	31	1.133	27	109.71	7500	76000	1820	121.1	165
	5/13/2020 5:06	31	1.133	27	109.71	7700	78000	1806	121.7	166
	5/13/2020 6:06	31	1.133	27	111.86	7500	76000	1757	122.3	167
	5/13/2020 7:06	32	1.133	27	109.71	7500	76000	1816	122.9	168
	5/13/2020 8:06	32	1.067	28	114.01	8400	88000	1803	123.7	168
	5/13/2020 9:06	32	1.067	28	114.01	8600	90000	1826	124.4	169
	5/13/2020 10:06	32	1.067	29	114.01	8900	96000	1767	125.2	170
	5/13/2020 11:06	31	1.067	30	116.16	9000	102000	1797	126.0	171
	5/13/2020 12:05	33	1.067	30	116.16	9300	104000	1804	126.8	172
	5/13/2020 13:05	33	1.067	30	118.32	9300	106000	1825	127.7	173
	5/13/2020 14:05	31	1.067	31	120.47	9000	106000	1837	128.6	174
	5/13/2020 15:05	34	1.067	30	116.16	9300	106000	1812	129.4	175
	5/13/2020 16:05	32	1.067	30	116.16	9000	102000	1833	130.3	176
	5/13/2020 17:05	32	1.067	30	114.01	9100	102000	1765	131.1	177
	5/13/2020 18:05	32	1.067	29	114.01	9200	100000	1801	131.9	178
	5/13/2020 19:04	33	1.133	29	114.01	8800	96000	1790	132.7	179
	5/13/2020 20:04	32	1.133	28	111.86	8700	92000	1818	133.4	179
	5/13/2020 21:04	32	1.133	28	111.86	8100	86000	1823	134.1	180
	5/13/2020 22:04	32	1.133	27	109.71	7800	80000	1797	134.8	181
	5/13/2020 23:04	32	1.133	27	109.71	7700	78000	1775	135.4	182
	5/14/2020 0:04	32	1.133	27	107.56	7600	76000	1836	136.0	183
	5/14/2020 1:04	31	1.133	27	109.71	7500	76000	1784	136.7	184
	5/14/2020 2:03	30	1.133	27	109.71	7400	76000	1788	137.3	185
	5/14/2020 3:03	31	1.133	27	109.71	7400	76000	1804	137.9	186
	5/14/2020 4:03	31	1.133	27	111.86	7500	76000	1814	138.5	187
	5/14/2020 5:03	32	1.133	27	111.86	7800	78000	1842	139.1	188
	5/14/2020 6:03	31	1.133	27	111.86	7600	78000	1831	139.8	189
	5/14/2020 7:03	31	1.133	27	111.86	7600	76000	1827	140.4	189
	5/14/2020 8:03	30	1.133	28	114.01	8000	84000	1799	141.1	190
	5/14/2020 9:03	32	1.067	29	111.86	8400	92000	1826	141.8	191
	5/14/2020 10:02	32	1.067	29	114.01	8800	96000	1775	142.6	192
	5/14/2020 11:02	31	1.133	30	114.01	8800	100000	1804	143.4	193
	5/14/2020 12:02	32	1.067	30	116.16	9000	102000	1775	144.2	194
	5/14/2020 13:02	34	1.133	30	116.16	9100	102000	1817	145.1	195
	5/14/2020 14:02	33	1.133	30	116.16	8800	100000	1803	145.9	196
	5/14/2020 15:02	32	1.133	30	114.01	8900	100000	1813	146.7	197
	5/14/2020 16:02	33	1.133	30	114.01	8500	96000	1804	147.5	198
	5/14/2020 17:01	33	1.133	29	114.01	8900	96000	1798	148.3	199
	5/14/2020 18:01	32	1.133	29	114.01	8500	94000	1797	149.0	199
	5/14/2020 19:01	32	1.133	28	109.71	8500	90000	1758	149.8	200
	5/14/2020 20:01	33	1.133	28	109.71	8100	86000	1840	150.5	201



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ENGINE 1 - MDPE Event Summary - May 5, 2020-May 19, 2020

Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-2, SVE-3	5/14/2020 21:01	32	1.133	27	109.71	8100	82000	1778	151.1	202
	5/14/2020 22:01	32	1.133	27	109.71	7700	78000	1783	151.8	203
	5/14/2020 23:01	31	1.133	27	111.86	7300	74000	1832	152.4	204
	5/15/2020 0:00	30	1.133	27	111.86	7300	74000	1796	153.0	205
	5/15/2020 1:00	31	1.133	27	109.71	7200	74000	1801	153.6	206
	5/15/2020 2:00	32	1.133	27	111.86	7400	74000	1811	154.2	207
	5/15/2020 3:00	31	1.133	27	111.86	7200	72000	1791	154.7	208
	5/15/2020 4:00	31	1.133	27	109.71	7100	72000	1825	155.3	209
	5/15/2020 5:00	29	1.133	27	111.86	6600	68000	1790	155.9	209
	5/15/2020 6:00	30	1.133	26	109.71	6800	66000	1796	156.4	210
	5/15/2020 6:59	30	1.133	27	111.86	6900	70000	1769	157.0	211
	5/15/2020 7:59	32	1.067	28	111.86	8100	86000	1805	157.7	212
	5/15/2020 8:59	31	1.133	29	109.71	8300	92000	1760	158.4	213
	5/15/2020 9:59	33	1.133	29	114.01	8800	96000	1814	159.2	214
	5/15/2020 10:59	34	1.133	29	111.86	9200	100000	1766	160.0	215
	5/15/2020 11:59	32	1.133	30	114.01	9100	104000	1821	160.9	216
	5/15/2020 12:59	32	1.133	30	114.01	9300	104000	1783	161.7	217
	5/15/2020 13:58	33	1.133	30	114.01	9100	102000	1772	162.6	218
	5/15/2020 14:58	33	1.133	30	114.01	9300	104000	1790	163.4	219
	5/15/2020 15:58	34	1.133	29	114.01	9200	100000	1797	164.2	219
	5/15/2020 16:58	34	1.133	29	111.86	9000	98000	1831	165.0	220
	5/15/2020 17:58	34	1.133	28	111.86	8400	88000	1786	165.7	221
	5/15/2020 18:58	33	1.133	28	109.71	7900	84000	1832	166.4	222
	5/15/2020 19:58	33	1.133	27	109.71	7800	80000	1789	167.1	223
	5/15/2020 20:57	32	1.133	27	107.56	7600	76000	1814	167.7	224
	5/15/2020 21:57	31	1.133	27	111.86	7200	74000	1817	168.3	225
	5/15/2020 22:57	32	1.133	27	109.71	7100	72000	1822	168.9	226
	5/15/2020 23:57	30	1.133	27	109.71	7000	72000	1777	169.4	227
	5/16/2020 0:57	31	1.133	27	109.71	7100	72000	1831	170.0	228
	5/16/2020 1:57	30	1.133	27	111.86	7100	72000	1817	170.6	229
	5/16/2020 2:57	31	1.133	27	109.71	7100	72000	1788	171.2	229
	5/16/2020 3:56	31	1.2	27	111.86	6800	68000	1804	171.8	230
	5/16/2020 4:56	31	1.133	27	111.86	7100	72000	1822	172.3	231
	5/16/2020 5:56	32	1.133	26	109.71	6900	68000	1829	172.9	232
	5/16/2020 6:56	31	1.133	27	111.86	7100	72000	1830	173.5	233
	5/16/2020 7:56	31	1.133	28	111.86	7300	76000	1819	174.1	234
	5/16/2020 8:56	32	1.133	28	111.86	7600	80000	1781	174.7	235
	5/16/2020 9:56	32	1.133	29	114.01	8000	88000	1805	175.5	236
	5/16/2020 10:55	33	1.133	29	111.86	8100	88000	1840	176.2	237
	5/16/2020 11:55	30	1.133	30	116.16	8100	92000	1790	176.9	238
	5/16/2020 12:55	32	1.133	30	120.47	8300	94000	1798	177.7	239
	5/16/2020 13:55	32	1.133	30	116.16	8300	94000	1791	178.5	239
	5/16/2020 14:55	31	1.133	31	118.32	8000	94000	1826	179.2	240
	5/16/2020 15:55	32	1.133	30	116.16	8300	94000	1772	180.0	241
	5/16/2020 16:55	32	1.133	30	114.01	8000	90000	1845	180.7	242
	5/16/2020 17:54	32	1.133	30	111.86	7800	88000	1838	181.4	243
	5/16/2020 18:54	32	1.133	29	114.01	7800	86000	1825	182.1	244
	5/16/2020 19:54	31	1.133	28	109.71	7400	78000	1760	182.8	245
	5/16/2020 20:54	32	1.133	27	107.56	7400	76000	1818	183.4	246
	5/16/2020 21:54	31	1.133	27	109.71	7000	72000	1815	184.0	247
	5/16/2020 22:54	30	1.133	27	111.86	6900	70000	1790	184.5	248
	5/16/2020 23:54	32	1.2	27	109.71	6800	68000	1785	185.1	249
	5/17/2020 0:53	31	1.2	27	111.86	6600	66000	1776	185.6	249
	5/17/2020 1:53	31	1.2	27	109.71	6400	64000	1831	186.1	250
	5/17/2020 2:53	30	1.2	27	109.71	6200	62000	1756	186.7	251
	5/17/2020 3:53	30	1.2	27	109.71	6200	64000	1801	187.2	252
	5/17/2020 4:53	31	1.2	27	109.71	6200	64000	1792	187.7	253
	5/17/2020 5:53	30	1.2	27	109.71	6000	60000	1801	188.2	254
	5/17/2020 6:53	30	1.2	27	111.86	6400	64000	1749	188.7	255
	5/17/2020 7:52	31	1.133	27	107.56	7300	74000	1803	189.3	256
	5/17/2020 8:52	31	1.133	28	109.71	7500	80000	1815	190.0	257
	5/17/2020 9:52	32	1.133	29	111.86	7700	84000	1838	190.6	258
	5/17/2020 10:52	32	1.133	29	114.01	7900	86000	1784	191.3	259
	5/17/2020 11:52	30	1.133	30	114.01	7700	88000	1768	192.0	259
	5/17/2020 12:52	31	1.133	30	114.01	7900	90000	1765	192.8	260
	5/17/2020 13:52	31	1.133	30	114.01	8000	90000	1763	193.5	261
	5/17/2020 14:51	31	1.133	30	111.86	8300	94000	1784	194.3	262
	5/17/2020 15:51	32	1.133	30	111.86	8200	94000	1780	195.0	263
	5/17/2020 16:51	32	1.133	30	111.86	8100	92000	1785	195.8	264
	5/17/2020 17:51	33	1.133	30	111.86	8300	90000	1826	196.5	265
	5/17/2020 18:51	32	1.133	29	109.71	7900	86000	1833	197.2	266
	5/17/2020 19:51	32	1.2	28	107.56	7300	78000	1816	197.9	267
	5/17/2020 20:51	32	1.2	27	107.56	7500	76000	1810	198.5	268
	5/17/2020 21:50	32	1.133	27	107.56	7300	74000	1784	199.1	269



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ENGINE 1 - MDPE Event Summary - May 5, 2020-May 19, 2020

Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-2, SVE-3	5/17/2020 22:50	31	1.2	27	109.71	7200	72000	1795	199.7	270
	5/17/2020 23:50	32	1.2	27	107.56	6700	68000	1784	200.2	270
	5/18/2020 0:50	32	1.2	27	109.71	6800	68000	1796	200.8	271
	5/18/2020 1:50	31	1.2	27	107.56	6700	68000	1759	201.3	272
	5/18/2020 2:50	32	1.2	27	109.71	6500	66000	1825	201.9	273
	5/18/2020 3:50	30	1.2	27	109.71	6600	68000	1796	202.4	274
	5/18/2020 4:49	31	1.2	27	109.71	6300	64000	1820	202.9	275
	5/18/2020 5:49	30	1.2	27	107.56	5800	58000	1783	203.4	276
	5/18/2020 6:49	30	1.2	27	109.71	6300	64000	1828	203.9	277
	5/18/2020 7:49	32	1.133	28	109.71	7100	74000	1839	204.5	278
	5/18/2020 8:49	31	1.133	29	109.71	7700	84000	1765	205.2	279
	5/18/2020 9:49	33	1.133	29	111.86	8200	90000	1829	205.9	280
	5/18/2020 10:49	32	1.133	30	114.01	8400	96000	1805	206.7	280
	5/18/2020 11:48	33	1.133	30	111.86	8800	100000	1778	207.5	281
	5/18/2020 12:48	33	1.133	30	111.86	9000	102000	1791	208.4	282
	5/18/2020 13:48	34	1.133	30	114.01	8900	100000	1803	209.2	283
	5/18/2020 14:48	33	1.133	30	111.86	8900	100000	1781	210.0	284
	5/18/2020 15:48	33	1.133	30	114.01	8900	100000	1805	210.8	285
	5/18/2020 16:48	32	1.133	30	111.86	8800	100000	1806	211.6	286
	5/18/2020 17:48	34	1.133	29	109.71	8800	96000	1770	212.4	287
	5/18/2020 18:47	32	1.133	29	111.86	8500	92000	1795	213.1	288
	5/18/2020 19:47	34	1.2	28	107.56	7900	84000	1827	213.8	289
	5/18/2020 20:47	31	1.2	28	107.56	7400	78000	1800	214.5	290
	5/18/2020 21:47	32	1.133	28	107.56	7700	82000	1754	215.1	290
	5/18/2020 22:47	32	1.2	28	107.56	7500	78000	1762	215.8	291
	5/18/2020 23:47	32	1.2	28	109.71	7400	78000	1822	216.4	292
	5/19/2020 0:47	32	1.2	28	107.56	7300	76000	1836	217.0	293
	5/19/2020 1:46	32	1.2	27	105.41	7400	76000	1800	217.6	294
	5/19/2020 2:46	32	1.2	27	107.56	7300	74000	1828	218.2	295
	5/19/2020 3:46	34	1.2	26	105.41	7200	70000	1843	218.8	296
	5/19/2020 4:46	32	1.2	27	107.56	6900	70000	1802	219.4	297
	5/19/2020 5:46	33	1.2	26	105.41	7200	70000	1820	219.9	298
	5/19/2020 6:46	32	1.133	27	107.56	7100	72000	1830	220.5	299
	5/19/2020 7:46	30	1.133	28	107.56	7600	80000	1792	221.2	300
	5/19/2020 8:45	32	1.133	28	105.41	8100	86000	1772	221.9	300
	5/19/2020 9:45	34	1.133	29	107.56	8600	94000	1802	222.6	301
	5/19/2020 10:45	32	1.133	29	109.71	8800	96000	1789	223.4	302
	5/19/2020 11:45	33	1.133	30	109.71	8900	102000	1772	224.2	303
	5/19/2020 12:45	34	1.267	31	187.15	7200	84000	1796	224.9	304
	5/19/2020 13:33	60	1.4	0	8.6	0	88000	1806	224.9	305
		31.20	1.11	27.88	110.94	7857.91	82869.05			



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ENGINE 2 - MDPE Event Summary - April 21-May 5, 2020

Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-3	4/21/2020 13:30	69	0.067	15	73.14	62200	350000	1990	0.0	0
	4/21/2020 14:30	69	0	15	75.29	64000	362000	1987	2.8	1
	4/21/2020 15:30	68	0	16	79.59	59500	358000	2042	2.9	1
	4/21/2020 16:30	67	0.067	15	77.44	60900	346000	1980	5.7	2
	4/21/2020 17:29	64	0.067	17	83.9	53100	342000	2005	8.4	2
	4/21/2020 18:29	62	0	19	96.8	49000	350000	1988	11.3	3
	4/21/2020 19:29	61	0	21	118.32	44100	350000	2032	14.1	3
	4/21/2020 20:29	58	0	23	141.98	39300	342000	2054	16.9	4
	4/21/2020 21:29	54	0	24	157.04	36700	334000	1997	19.6	4
	4/21/2020 22:29	54	0	25	165.64	34700	326000	2039	22.3	5
	4/21/2020 23:29	53	0	25	174.25	34200	322000	2017	24.9	5
	4/22/2020 0:28	53	0	25	163.49	34500	326000	2026	27.5	6
	4/22/2020 1:28	54	0	25	163.49	35000	330000	2012	30.2	6
	4/22/2020 2:28	54	0	25	169.94	34500	326000	2056	32.9	7
	4/22/2020 3:28	51	0	26	185	32400	318000	2008	35.5	7
	4/22/2020 4:28	48	0.067	26	202.21	31500	310000	1964	38.0	8
	4/22/2020 5:28	52	0.2	25	212.97	29700	278000	2061	40.2	8
	4/22/2020 6:28	51	0.267	25	215.12	28600	270000	1992	42.4	9
	4/22/2020 7:27	52	0.2	25	212.97	30500	286000	1971	44.8	9
	4/22/2020 8:12	61	1.667	0	0	0	302000	1823	47.2	10
	4/22/2020 9:11	44	0	24	174.25	31600	286000	1788	49.5	11
	4/22/2020 10:11	44	0	24	176.4	31700	286000	1823	51.9	11
	4/22/2020 11:11	45	0	24	174.25	32200	290000	1828	54.2	12
	4/22/2020 12:11	47	0.067	23	174.25	33100	286000	1794	56.6	12
	4/22/2020 13:11	46	0.067	23	176.4	32300	278000	1774	58.8	13
	4/22/2020 14:11	47	0.133	22	174.25	32400	270000	1818	61.0	13
	4/22/2020 15:11	46	0.2	22	174.25	31100	258000	1809	63.1	14
	4/22/2020 16:10	48	0.2	21	174.25	32000	254000	1789	65.2	14
	4/22/2020 17:10	47	0.333	21	174.25	29700	234000	1783	67.1	15
	4/22/2020 18:10	48	0.333	20	174.25	30300	230000	1845	68.9	15
	4/22/2020 19:10	47	0.533	19	174.25	28200	202000	1815	70.6	16
	4/22/2020 20:10	48	0.6	18	174.25	27300	186000	1838	72.1	16
	4/22/2020 21:10	47	0.667	17	176.4	25600	164000	1826	73.4	17
	4/22/2020 22:10	47	0.667	17	174.25	23900	154000	1775	74.7	17
	4/22/2020 23:10	47	0.733	16	174.25	23700	142000	1829	75.8	18
	4/23/2020 0:09	45	0.733	16	174.25	24000	146000	1792	77.0	18
	4/23/2020 1:09	47	0.4	15	174.25	34400	194000	1805	78.6	19
	4/23/2020 2:09	46	0.867	15	174.25	19700	112000	1772	79.5	19
	4/23/2020 3:09	45	0.867	15	174.25	19500	110000	1803	80.4	20
	4/23/2020 4:09	47	0.933	14	176.4	20600	108000	1814	81.3	20
	4/23/2020 5:09	47	0.933	14	176.4	19800	104000	1791	82.1	21
	4/23/2020 6:09	47	0.933	14	174.25	19400	102000	1825	83.0	21
	4/23/2020 7:08	47	0.933	14	174.25	20400	108000	1811	83.8	22
	4/23/2020 8:08	48	0.067	15	176.4	43500	246000	1815	85.8	23
	4/23/2020 9:08	49	0.733	16	174.25	27800	168000	1782	87.2	23
	4/23/2020 10:08	49	0.733	17	174.25	26400	170000	1808	88.6	24
	4/23/2020 11:08	49	0.733	17	174.25	27000	172000	1776	90.0	24
	4/23/2020 12:08	49	0.733	17	174.25	25800	166000	1810	91.3	25
	4/23/2020 13:08	50	0.667	17	176.4	28200	180000	1826	92.8	25
	4/23/2020 14:07	49	0.8	17	176.4	26200	168000	1793	94.2	26
	4/23/2020 15:07	49	0.733	17	174.25	27600	178000	1812	95.6	26
	4/23/2020 16:07	49	0.4	17	174.25	31300	198000	1764	97.2	27
	4/23/2020 17:07	49	0.8	17	174.25	29200	188000	1785	98.7	27
	4/23/2020 18:07	49	0.067	16	174.25	43300	262000	1804	100.9	28
	4/23/2020 19:07	51	0.933	15	174.25	23900	134000	1835	102.0	28
	4/23/2020 20:07	48	1	14	174.25	20100	106000	1778	102.8	29
	4/23/2020 21:06	49	1.067	13	174.25	19300	94000	1811	103.6	29
	4/23/2020 22:06	49	1.067	12	174.25	19800	90000	1797	104.3	30
	4/23/2020 23:06	49	1.133	12	176.4	18000	82000	1841	105.0	30
	4/24/2020 0:06	48	1.133	12	176.4	17600	80000	1826	105.6	31
	4/24/2020 1:06	47	1.133	12	174.25	16800	76000	1791	106.3	31
	4/24/2020 2:06	47	1.133	12	174.25	16500	74000	1806	106.9	32
	4/24/2020 3:06	48	1.133	12	174.25	16700	74000	1798	107.5	32
	4/24/2020 4:05	47	1.133	12	176.4	16300	74000	1826	108.1	33
	4/24/2020 5:05	48	1.133	11	174.25	16300	68000	1775	108.6	33
	4/24/2020 6:05	48	1.133	12	174.25	16800	76000	1798	109.2	34
	4/24/2020 7:05	47	1.067	12	174.25	17600	80000	1774	109.9	35
	4/24/2020 8:05	48	1	14	174.25	20300	106000	1808	110.7	35
	4/24/2020 9:05	50	0.933	15	174.25	21300	120000	1780	111.7	36
	4/24/2020 10:05	50	0.933	15	174.25	22500	126000	1777	112.7	36
	4/24/2020 11:04	50	0.933	15	174.25	22900	130000	1779	113.8	37
	4/24/2020 12:04	50	0.933	15	174.25	23100	130000	1829	114.9	37
	4/24/2020 13:04	51	0.933	15	174.25	23000	130000	1804	115.9	38
	4/24/2020 14:04	50	0.933	15	174.25	23100	130000	1821	117.0	38



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Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-3	4/24/2020 15:04	50	0.933	15	174.25	21800	124000	1814	118.0	39
	4/24/2020 16:04	50	0.933	15	174.25	22800	128000	1834	119.0	39
	4/24/2020 17:04	49	0.933	15	176.4	21700	122000	1782	120.0	40
	4/24/2020 18:03	49	1	15	174.25	20900	118000	1818	121.0	40
	4/24/2020 19:03	49	1	14	174.25	21200	112000	1807	121.9	41
	4/24/2020 20:03	49	1.133	12	174.25	18700	84000	1807	122.6	41
	4/24/2020 21:03	49	1.133	11	174.25	18600	76000	1833	123.2	42
	4/24/2020 22:03	49	1.2	11	174.25	17700	74000	1821	123.8	42
	4/24/2020 23:03	50	1.2	10	174.25	17100	64000	1786	124.3	43
	4/25/2020 0:03	50	1.2	9	174.25	17800	60000	1801	124.8	43
	4/25/2020 1:02	50	1.2	9	174.25	16000	54000	1793	125.2	44
	4/25/2020 2:02	49	1.267	9	174.25	15100	50000	1788	125.6	44
	4/25/2020 3:02	49	1.267	9	174.25	14500	48000	1800	126.0	45
	4/25/2020 4:02	48	1.267	10	174.25	12700	48000	1800	126.4	46
	4/25/2020 5:02	48	1.267	9	174.25	12200	40000	1784	126.7	46
	4/25/2020 6:02	47	1.267	10	176.4	11200	42000	1831	127.1	47
	4/25/2020 7:02	47	1.2	10	174.25	12300	46000	1774	127.5	47
	4/25/2020 8:01	48	1.2	11	174.25	15500	64000	1780	128.0	48
	4/25/2020 9:01	48	1.133	12	176.4	16400	74000	1785	128.6	48
	4/25/2020 10:01	48	1.133	12	174.25	18300	82000	1806	129.3	49
	4/25/2020 11:01	47	1.067	13	174.25	17400	84000	1803	129.9	49
	4/25/2020 12:01	49	1.067	13	174.25	18600	90000	1786	130.7	50
	4/25/2020 13:01	49	1.067	13	174.25	19200	94000	1768	131.4	50
	4/25/2020 14:01	49	1.067	13	174.25	18900	92000	1779	132.2	51
	4/25/2020 15:01	49	1.133	13	174.25	18400	90000	1814	132.9	51
	4/25/2020 16:00	49	1.133	13	174.25	18500	90000	1783	133.6	52
	4/25/2020 17:00	49	1.133	13	174.25	18500	90000	1773	134.4	52
	4/25/2020 18:00	49	1.133	12	174.25	19000	86000	1763	135.1	53
	4/25/2020 19:00	49	1.133	12	174.25	18300	82000	1802	135.7	53
	4/25/2020 20:00	49	1.2	11	174.25	14900	62000	1789	136.2	54
	4/25/2020 21:00	49	1.267	9	176.4	14700	50000	1809	136.7	54
	4/25/2020 22:00	49	1.267	9	174.25	14000	46000	1788	137.0	55
	4/25/2020 22:59	49	1.267	9	174.25	13200	44000	1834	137.4	55
	4/25/2020 23:59	49	1.267	10	174.25	13200	50000	1810	137.8	56
	4/26/2020 0:59	49	1.267	10	174.25	13100	48000	1793	138.2	56
	4/26/2020 1:59	49	1.267	9	176.4	12900	44000	1781	138.5	57
	4/26/2020 2:59	48	1.333	9	174.25	12400	42000	1771	138.9	58
	4/26/2020 3:59	49	1.333	8	174.25	9900	30000	1799	139.1	58
	4/26/2020 4:59	49	1.333	8	174.25	9500	28000	1770	139.3	59
	4/26/2020 5:58	47	1.333	9	174.25	9000	30000	1796	139.6	59
	4/26/2020 6:58	48	1.267	10	174.25	12900	48000	1769	140.0	60
	4/26/2020 7:58	49	1.2	11	174.25	14400	60000	1804	140.5	60
	4/26/2020 8:58	49	1.2	12	174.25	15400	70000	1799	141.0	61
	4/26/2020 9:58	49	1.2	12	174.25	17300	78000	1768	141.7	61
	4/26/2020 10:58	49	1.2	13	174.25	16600	80000	1799	142.3	62
	4/26/2020 11:58	49	1.133	14	174.25	17800	94000	1772	143.1	62
	4/26/2020 12:57	49	1.133	14	174.25	18400	96000	1785	143.9	63
	4/26/2020 13:57	48	1.067	15	174.25	17800	100000	1815	144.7	63
	4/26/2020 14:57	49	1.067	15	174.25	18000	102000	1821	145.5	64
	4/26/2020 15:57	49	1.067	15	174.25	18100	102000	1787	146.3	64
	4/26/2020 16:57	49	1.067	15	174.25	18000	102000	1812	147.2	65
	4/26/2020 17:57	50	1.133	14	174.25	18600	98000	1835	148.0	65
	4/26/2020 18:57	50	1.133	14	174.25	17500	92000	1805	148.7	66
	4/26/2020 19:56	50	1.2	12	174.25	17100	78000	1787	149.3	66
	4/26/2020 20:56	51	1.2	11	174.25	17300	72000	1795	149.9	67
	4/26/2020 21:56	50	1.267	11	174.25	15800	64000	1781	150.5	67
	4/26/2020 22:56	50	1.267	11	174.25	15800	66000	1787	151.0	68
	4/26/2020 23:56	50	1.267	11	174.25	15500	64000	1784	151.5	68
	4/27/2020 0:56	50	1.267	11	176.4	15300	62000	1778	152.0	69
	4/27/2020 1:56	49	1.267	11	174.25	15200	62000	1785	152.5	70
	4/27/2020 2:55	50	1.267	11	174.25	14500	60000	1820	153.0	70
	4/27/2020 3:55	50	1.267	11	174.25	14600	60000	1819	153.5	71
	4/27/2020 4:55	49	1.267	11	176.4	14300	58000	1797	154.0	71
	4/27/2020 5:55	49	1.267	11	174.25	14100	58000	1805	154.4	72
	4/27/2020 6:55	51	1.333	9	174.25	13800	46000	1826	154.8	72
	4/27/2020 7:55	51	1.267	11	174.25	14900	62000	1794	155.3	73
	4/27/2020 8:55	51	1.2	12	174.25	17200	78000	1821	156.0	73
	4/27/2020 9:54	51	1.267	12	174.25	17500	78000	1818	156.6	74
	4/27/2020 10:54	51	1.2	13	176.4	17400	84000	1825	157.3	74
	4/27/2020 11:54	51	1.2	14	174.25	18100	96000	1806	158.0	75
	4/27/2020 12:54	52	1.2	14	174.25	18200	96000	1810	158.8	75
	4/27/2020 13:54	51	1.133	14	174.25	19600	102000	1806	159.7	76
	4/27/2020 14:54	51	1.133	14	174.25	18600	98000	1777	160.5	76
	4/27/2020 15:54	50	1.133	14	174.25	18900	100000	1819	161.3	77



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Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-3	4/27/2020 16:53	51	1.2	13	176.4	18600	90000	1778	162.0	77
	4/27/2020 17:53	51	1.2	13	174.25	16500	80000	1830	162.7	78
	4/27/2020 18:53	51	1.267	12	174.25	16800	76000	1813	163.3	78
	4/27/2020 19:53	52	1.267	11	174.25	15300	62000	1812	163.8	79
	4/27/2020 20:53	51	1.333	10	174.25	14800	56000	1827	164.2	79
	4/27/2020 21:53	50	1.333	11	174.25	13400	56000	1826	164.7	80
	4/27/2020 22:53	51	1.333	10	174.25	13900	52000	1796	165.1	80
	4/27/2020 23:52	50	1.333	10	174.25	13100	48000	1769	165.5	81
	4/28/2020 0:52	52	1.333	9	174.25	13700	46000	1787	165.9	82
	4/28/2020 1:52	50	1.333	9	174.25	13700	46000	1794	166.2	82
	4/28/2020 2:52	50	1.333	10	174.25	12200	46000	1782	166.6	83
	4/28/2020 3:52	49	1.267	11	174.25	12700	52000	1776	167.0	83
	4/28/2020 4:52	49	1.267	11	174.25	12800	52000	1772	167.5	84
	4/28/2020 5:52	49	1.267	11	176.4	12500	52000	1799	167.9	84
	4/28/2020 6:51	49	1.267	11	174.25	12500	52000	1823	168.3	85
	4/28/2020 7:51	48	1.2	13	174.25	13900	68000	1775	168.9	85
	4/28/2020 8:51	49	1.2	14	174.25	16600	88000	1794	169.6	86
	4/28/2020 9:51	49	1.067	16	174.25	17800	108000	1795	170.5	86
	4/28/2020 10:51	48	1.067	17	174.25	18300	116000	1781	171.4	87
	4/28/2020 11:51	48	1.067	17	174.25	19100	122000	1793	172.4	87
	4/28/2020 12:51	48	1	17	174.25	19700	126000	1820	173.4	88
	4/28/2020 13:51	49	1	17	174.25	19400	124000	1793	174.4	88
	4/28/2020 14:50	48	1.067	17	174.25	19500	124000	1777	175.4	89
	4/28/2020 15:50	48	1	17	174.25	19700	126000	1782	176.5	89
	4/28/2020 16:50	47	1	18	174.25	18100	122000	1792	177.4	90
	4/28/2020 17:50	48	1.067	17	174.25	18100	116000	1780	178.4	90
	4/28/2020 18:50	47	1.067	17	176.4	16900	108000	1777	179.3	91
	4/28/2020 19:50	48	1.133	15	176.4	15700	88000	1802	180.0	91
	4/28/2020 20:50	47	1.2	14	174.25	13700	72000	1819	180.6	92
	4/28/2020 21:49	45	1.133	15	174.25	14700	82000	1778	181.2	92
	4/28/2020 22:49	47	1.133	15	176.4	14600	82000	1829	181.9	93
	4/28/2020 23:49	46	1.2	15	174.25	13100	74000	1780	182.5	94
	4/29/2020 0:49	46	1.133	15	174.25	14000	78000	1812	183.1	94
	4/29/2020 1:49	46	1.2	15	174.25	13200	74000	1797	183.7	95
	4/29/2020 2:49	45	1.2	15	176.4	12600	70000	1819	184.3	95
	4/29/2020 3:49	45	1.2	15	174.25	12400	70000	1790	184.9	96
	4/29/2020 4:48	44	1.2	15	174.25	11700	66000	1817	185.4	96
	4/29/2020 5:48	45	1.2	14	174.25	11700	62000	1775	185.9	97
	4/29/2020 6:48	44	1.2	15	174.25	10900	62000	1793	186.4	97
	4/29/2020 7:48	44	1.133	16	174.25	12600	76000	1825	187.0	98
	4/29/2020 8:48	43	1.133	17	174.25	13000	82000	1778	187.7	98
	4/29/2020 9:48	42	1.067	18	174.25	13000	88000	1790	188.4	99
	4/29/2020 10:48	43	1.067	18	174.25	13300	90000	1801	189.2	99
	4/29/2020 11:47	43	1.067	18	174.25	13500	92000	1797	189.9	100
	4/29/2020 12:47	43	1.067	19	174.25	13400	96000	1835	190.7	100
	4/29/2020 13:47	41	1.067	20	174.25	13200	100000	1800	191.5	101
	4/29/2020 14:47	40	1	23	174.25	12600	108000	1824	192.4	101
	4/29/2020 15:47	40	1	23	174.25	12900	112000	1825	193.3	102
	4/29/2020 16:47	38	1	24	174.25	12300	112000	1802	194.2	102
	4/29/2020 17:47	40	1	23	174.25	12400	108000	1768	195.1	103
	4/29/2020 18:46	39	1	23	174.25	11900	102000	1820	195.9	103
	4/29/2020 19:46	38	1.067	23	174.25	10800	94000	1780	196.7	104
	4/29/2020 20:46	38	1.067	22	174.25	10200	84000	1779	197.3	104
	4/29/2020 21:46	38	1.067	21	176.4	9800	78000	1824	198.0	105
	4/29/2020 22:46	38	1.133	20	176.4	9300	70000	1764	198.6	106
	4/29/2020 23:46	38	1.133	20	174.25	9400	70000	1782	199.1	106
	4/30/2020 0:46	36	1.133	21	176.4	8700	68000	1815	199.7	107
	4/30/2020 1:45	37	1.133	20	174.25	8900	66000	1796	200.2	107
	4/30/2020 2:45	37	1.133	20	174.25	8600	64000	1798	200.7	108
	4/30/2020 3:45	37	1.133	20	174.25	8100	60000	1813	201.2	108
	4/30/2020 4:45	37	1.133	20	174.25	7900	60000	1775	201.7	109
	4/30/2020 5:45	37	1.133	20	174.25	7600	56000	1791	202.2	109
	4/30/2020 6:45	36	1.133	21	174.25	7900	62000	1817	202.7	110
	4/30/2020 7:45	38	1.067	22	174.25	10300	86000	1827	203.4	110
	4/30/2020 8:44	37	1	24	176.4	11000	100000	1803	204.2	111
	4/30/2020 9:44	37	1	25	174.25	11800	110000	1781	205.1	111
	4/30/2020 10:44	38	1	26	174.25	11600	114000	1776	206.0	112
	4/30/2020 11:44	37	1	27	174.25	11700	120000	1807	207.0	112
	4/30/2020 12:44	38	1	27	174.25	12200	124000	1796	208.0	113
	4/30/2020 13:44	38	1	27	174.25	12200	124000	1815	209.0	113
	4/30/2020 14:44	37	1	28	174.25	11900	126000	1809	210.0	114
	4/30/2020 15:43	37	1	28	174.25	12000	126000	1770	211.0	114
	4/30/2020 16:43	38	1	27	174.25	12300	126000	1780	212.1	115
	4/30/2020 17:43	37	1	28	174.25	11900	126000	1781	213.1	115



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Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-3	4/30/2020 18:43	37	1	27	174.25	11700	120000	1829	214.1	116
	4/30/2020 19:43	39	1.067	25	174.25	10400	98000	1795	214.9	116
	4/30/2020 20:43	40	1.133	22	174.25	10100	84000	1833	215.5	117
	4/30/2020 21:43	39	1.133	22	174.25	9500	78000	1811	216.2	118
	4/30/2020 22:42	38	1.133	23	174.25	10200	88000	1769	216.9	118
	4/30/2020 23:42	39	1.133	24	174.25	9900	90000	1836	217.6	119
	5/1/2020 0:42	38	1.133	24	176.4	9900	90000	1774	218.4	119
	5/1/2020 1:42	37	1.133	24	176.4	10100	92000	1805	219.1	120
	5/1/2020 2:42	38	1.133	24	174.25	10000	90000	1780	219.8	120
	5/1/2020 3:42	38	1.133	23	176.4	9500	82000	1803	220.5	121
	5/1/2020 4:42	39	1.133	22	174.25	9200	76000	1831	221.1	121
	5/1/2020 5:42	39	1.133	22	174.25	9100	76000	1828	221.7	122
	5/1/2020 6:41	39	1.133	22	174.25	9200	76000	1824	222.4	122
	5/1/2020 7:41	38	1.133	24	174.25	10000	90000	1836	223.1	123
	5/1/2020 8:41	38	1.067	26	174.25	10200	100000	1803	223.9	123
	5/1/2020 9:41	38	1.067	27	174.25	10800	110000	1809	224.8	124
	5/1/2020 10:41	38	1.067	28	176.4	11200	118000	1819	225.8	124
	5/1/2020 11:41	38	1.067	29	174.25	11300	124000	1798	226.8	125
	5/1/2020 12:41	38	1.067	28	176.4	11600	122000	1805	227.8	125
	5/1/2020 13:40	38	1.067	29	174.25	11600	126000	1805	228.8	126
	5/1/2020 14:40	38	1.067	28	174.25	11900	126000	1768	229.8	126
	5/1/2020 15:40	40	1.067	27	174.25	12000	122000	1817	230.8	127
	5/1/2020 16:40	40	1.067	27	174.25	11400	116000	1799	231.7	127
	5/1/2020 17:40	39	1.067	27	174.25	11500	118000	1821	232.7	128
	5/1/2020 18:40	39	1.067	27	174.25	11500	116000	1815	233.6	128
	5/1/2020 19:40	38	1.133	27	176.4	10500	108000	1778	234.5	129
	5/1/2020 20:39	38	1.133	26	174.25	10000	98000	1822	235.3	130
	5/1/2020 21:39	38	1.133	26	174.25	9500	92000	1773	236.1	130
	5/1/2020 22:39	37	1.133	25	174.25	9300	88000	1803	236.8	131
	5/1/2020 23:39	38	1.133	24	174.25	9100	82000	1776	237.4	131
	5/2/2020 0:39	38	1.2	23	174.25	9000	78000	1770	238.1	132
	5/2/2020 1:39	37	1.2	24	174.25	8600	78000	1792	238.7	132
	5/2/2020 2:39	38	1.2	23	174.25	8500	74000	1797	239.3	133
	5/2/2020 3:38	38	1.2	22	174.25	7800	64000	1766	239.8	133
	5/2/2020 4:38	37	1.2	22	176.4	7300	60000	1823	240.3	134
	5/2/2020 5:38	37	1.2	22	174.25	6900	58000	1828	240.8	134
	5/2/2020 6:38	37	1.2	22	174.25	6800	56000	1816	241.3	135
	5/2/2020 7:38	38	1.2	24	174.25	8300	76000	1836	241.9	135
	5/2/2020 8:38	38	1.133	26	174.25	9700	94000	1824	242.6	136
	5/2/2020 9:38	40	1.133	26	174.25	10500	102000	1805	243.5	136
	5/2/2020 10:37	38	1.133	27	174.25	10900	110000	1806	244.4	137
	5/2/2020 11:37	38	1.133	28	174.25	10900	114000	1791	245.3	137
	5/2/2020 12:37	38	1.067	28	174.25	11000	116000	1799	246.2	138
	5/2/2020 13:37	38	1.067	28	174.25	11000	116000	1808	247.2	138
	5/2/2020 14:37	38	1.067	28	174.25	11300	120000	1831	248.1	139
	5/2/2020 15:37	38	1.067	28	174.25	11200	118000	1813	249.1	139
	5/2/2020 16:37	37	1.067	28	176.4	11000	116000	1799	250.0	140
	5/2/2020 17:36	38	1.133	28	174.25	10700	114000	1834	251.0	141
	5/2/2020 18:36	39	1.133	27	176.4	10900	112000	1793	251.9	141
	5/2/2020 19:36	38	1.133	26	176.4	9900	96000	1788	252.7	142
	5/2/2020 20:36	38	1.2	24	174.25	8800	80000	1811	253.3	142
	5/2/2020 21:36	37	1.2	24	174.25	8100	74000	1828	253.9	143
	5/2/2020 22:36	37	1.133	25	174.25	8800	84000	1775	254.6	143
	5/2/2020 23:36	36	1.133	27	174.25	8800	90000	1779	255.3	144
	5/3/2020 0:35	36	1.2	27	174.25	8300	84000	1777	256.0	144
	5/3/2020 1:35	37	1.2	24	174.25	7700	70000	1771	256.6	145
	5/3/2020 2:35	37	1.2	24	174.25	7700	70000	1804	257.2	145
	5/3/2020 3:35	37	1.2	23	174.25	7000	60000	1830	257.6	146
	5/3/2020 4:35	37	1.2	22	174.25	7100	58000	1796	258.1	146
	5/3/2020 5:35	37	1.2	23	174.25	6900	60000	1807	258.6	147
	5/3/2020 6:35	36	1.2	23	174.25	6800	58000	1825	259.1	147
	5/3/2020 7:34	37	1.2	25	174.25	8200	76000	1829	259.7	148
	5/3/2020 8:34	37	1.2	26	174.25	8800	86000	1780	260.4	148
	5/3/2020 9:34	38	1.2	27	174.25	9300	94000	1799	261.2	149
	5/3/2020 10:34	38	1.2	27	174.25	9900	100000	1781	262.0	149
	5/3/2020 11:34	38	1.2	28	174.25	9900	104000	1789	262.8	150
	5/3/2020 12:34	37	1.133	29	174.25	9900	108000	1808	263.7	150
	5/3/2020 13:34	38	1.133	29	174.25	9900	108000	1825	264.6	151
	5/3/2020 14:33	37	1.133	29	174.25	9900	108000	1767	265.4	151
	5/3/2020 15:33	37	1.133	29	174.25	9900	108000	1786	266.3	152
	5/3/2020 16:33	36	1.133	29	174.25	10100	110000	1790	267.2	153
	5/3/2020 17:33	38	1.133	28	174.25	10300	110000	1822	268.1	153
	5/3/2020 18:33	36	1.133	29	176.4	10100	110000	1820	269.0	154
	5/3/2020 19:33	37	1.2	27	174.25	9300	94000	1793	269.8	154



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Controller Datapoint Summary

Energy Transfer Site
Monument, NM

ENGINE 2 - MDPE Event Summary - April 21-May 5, 2020

Well Connections	Time Stamp	Air Flow (scfm)	Fuel Flow (scfm)	Well Flow (scfm)	Applied Vac (In. of H2O)	Est TPH (ppmV)	Energy (BTU/Hr)	Eng Speed (RPM)	Vapor Recovery (gallons)	Total Fluid Recovery (gallons)
SVE-1, SVE-3	5/3/2020 20:33	37	1.2	26	176.4	8100	80000	1808	270.4	155
	5/3/2020 21:32	37	1.2	24	174.25	7900	72000	1770	271.0	155
	5/3/2020 22:32	38	1.267	24	174.25	7200	64000	1827	271.5	156
	5/3/2020 23:32	37	1.2	24	174.25	7700	70000	1788	272.1	156
	5/4/2020 0:32	37	1.2	24	174.25	7600	68000	1826	272.7	157
	5/4/2020 1:32	37	1.2	24	174.25	7400	66000	1818	273.2	157
	5/4/2020 2:32	37	1.267	24	174.25	7200	66000	1807	273.7	158
	5/4/2020 3:32	36	1.2	25	174.25	7100	66000	1808	274.3	158
	5/4/2020 4:32	35	1.2	25	174.25	7100	66000	1787	274.8	159
	5/4/2020 5:31	36	1.2	24	174.25	6900	62000	1810	275.3	159
	5/4/2020 6:31	35	1.2	25	174.25	6500	60000	1825	275.8	160
	5/4/2020 7:31	36	1.2	26	174.25	7900	76000	1819	276.4	160
	5/4/2020 8:31	36	1.2	28	174.25	8700	92000	1827	277.2	161
	5/4/2020 9:31	35	1.2	30	174.25	9300	106000	1803	278.0	161
	5/4/2020 10:31	35	1.133	31	174.25	9200	108000	1822	278.9	162
	5/4/2020 11:31	35	1.133	32	174.25	9500	114000	1835	279.8	162
	5/4/2020 12:30	36	1.133	32	174.25	9500	116000	1783	280.8	163
	5/4/2020 13:30	34	1.133	33	176.4	9400	118000	1761	281.7	163
	5/4/2020 14:30	35	1.133	32	174.25	9600	116000	1775	282.7	164
	5/4/2020 15:30	36	1.133	31	174.25	9800	114000	1799	283.6	165
	5/4/2020 16:30	36	1.133	31	174.25	9600	112000	1773	284.5	165
	5/4/2020 17:30	36	1.2	30	174.25	9300	106000	1800	285.4	166
	5/4/2020 18:30	37	1.2	29	174.25	9500	104000	1824	286.2	166
	5/4/2020 19:29	37	1.2	28	174.25	8400	88000	1818	286.9	167
	5/4/2020 20:29	37	1.267	26	174.25	7800	76000	1786	287.5	167
	5/4/2020 21:29	37	1.267	25	174.25	7200	68000	1771	288.1	168
	5/4/2020 22:29	38	1.267	24	174.25	7100	64000	1813	288.6	168
	5/4/2020 23:29	37	1.267	24	174.25	6700	60000	1780	289.1	169
	5/5/2020 0:29	36	1.267	25	174.25	6500	60000	1793	289.6	169
	5/5/2020 1:29	37	1.267	25	174.25	6900	64000	1780	290.1	170
	5/5/2020 2:28	37	1.267	25	174.25	7200	68000	1806	290.7	170
	5/5/2020 3:28	36	1.267	25	174.25	6900	66000	1820	291.2	171
	5/5/2020 4:28	36	1.267	25	174.25	6500	60000	1829	291.7	171
	5/5/2020 5:28	35	1.267	25	174.25	6400	60000	1772	292.2	172
	5/5/2020 6:28	36	1.267	25	176.4	6200	58000	1826	292.7	172
	5/5/2020 7:28	35	1.2	26	174.25	6600	64000	1831	293.2	173
	5/5/2020 8:28	34	1.2	28	174.25	6800	72000	1810	293.8	173
	5/5/2020 9:27	32	1.2	29	174.25	7100	78000	1808	294.4	174
	5/5/2020 10:27	34	1.2	29	174.25	7100	78000	1800	295.0	174
	5/5/2020 11:27	33	1.2	30	174.25	7600	86000	1826	295.7	175
	5/5/2020 12:27	32	1.133	31	174.25	7600	88000	1829	296.4	175
	5/5/2020 13:13	52	1.2	5	15.06	0	86000	1734	297.1	176
		44.19	1.03	19.23	172.40	15930.86	110260.36			

Cumulative Elevation Table**Energy Transfer Site
Monument, TX****MDPE Event - April 21-May 19, 2020**

Well	Date	Event Duration on Well	Depth to LNAPL (feet)	Depth to Groundwater (feet)	LNAPL Thickness (feet)	Stinger Depth (feet)	Change in Elevation (feet)
SVE-1	4/21/2020	---	51.85	54.68	2.83	54.68	---
	5/19/2020	670.25		Well is Dry		54.68	-3.40
SVE-2	4/21/2020	---		Well is Dry			
	5/19/2020	334.00		Well is Dry		49.00	---
SVE-3	4/21/2020	---	52.11	No GW in Well	1.42	53.50	---
	5/19/2020	670.25	---	53.60	0.00	53.50	-1.49

Hydrocarbon Recovery Summary - MDPE Event
April 21-May 19, 2020
Energy Transfer Site
Monument, TX

Vapor Phase Recovery (Influent #2 - SVE-1, SVE-3):

Pounds of recovered hydrocarbon per day = flow rate (cfm) X concentration (ppmv)

where: CFM = cubic feet per minute
 *PPM = parts per million (see note below)

Flow Rate (cfm):	36.80	cfm (Engine 1 plus Engine 2 well flows 4/21/20 to 5/5/20)
Concentration (ppm):	16,900	average ppm (Influent#2 16,900 GRO)
Unit Conversion (constant):	0.00036	{[(0.25 lb/cubic ft) X (1440 min/day)]/10}
Recovery Rate:	223.891	lbs GRO/day
Recovery Period:	14.00	days (Engine 1 and 2 run time 4/21/20 to 5/5/20)
Product Recovery Total:	3,134.48	lbs of GRO
Product Recovery Total:	522.41	gals. of GRO [6 lbs. / gal.]

Vapor Phase Recovery (Influent #3 - SVE-1, SVE-2, SVE-3):

Pounds of recovered hydrocarbon per day = flow rate (cfm) X concentration (ppmv)

where: CFM = cubic feet per minute
 *PPM = parts per million (see note below)

Flow Rate (cfm):	27.90	cfm (Engine 1 well flow 5/5/20 to 5/19/20)
Concentration (ppm):	14,700	average ppm (Influent #3 14,700 GRO)
Unit Conversion (constant):	0.00036	{[(0.25 lb/cubic ft) X (1440 min/day)]/10}
Recovery Rate:	147.647	lbs GRO/day
Recovery Period:	13.92	days (Engine 1 run time 5/5/20 to 5/19/20)
Product Recovery Total:	2,055.24	lbs of GRO
Product Recovery Total:	342.54	gals. of GRO [6 lbs. / gal.]

Total gallons recovered from SVE-1, SVE-2 and SVE-3 (analytical calculated vapor): **864.95 gallons***

Total gallons recovered from SVE-1, SVE-2 and SVE-3 (Unit Controller / BTU calculated vapor): **821.9 gallons**

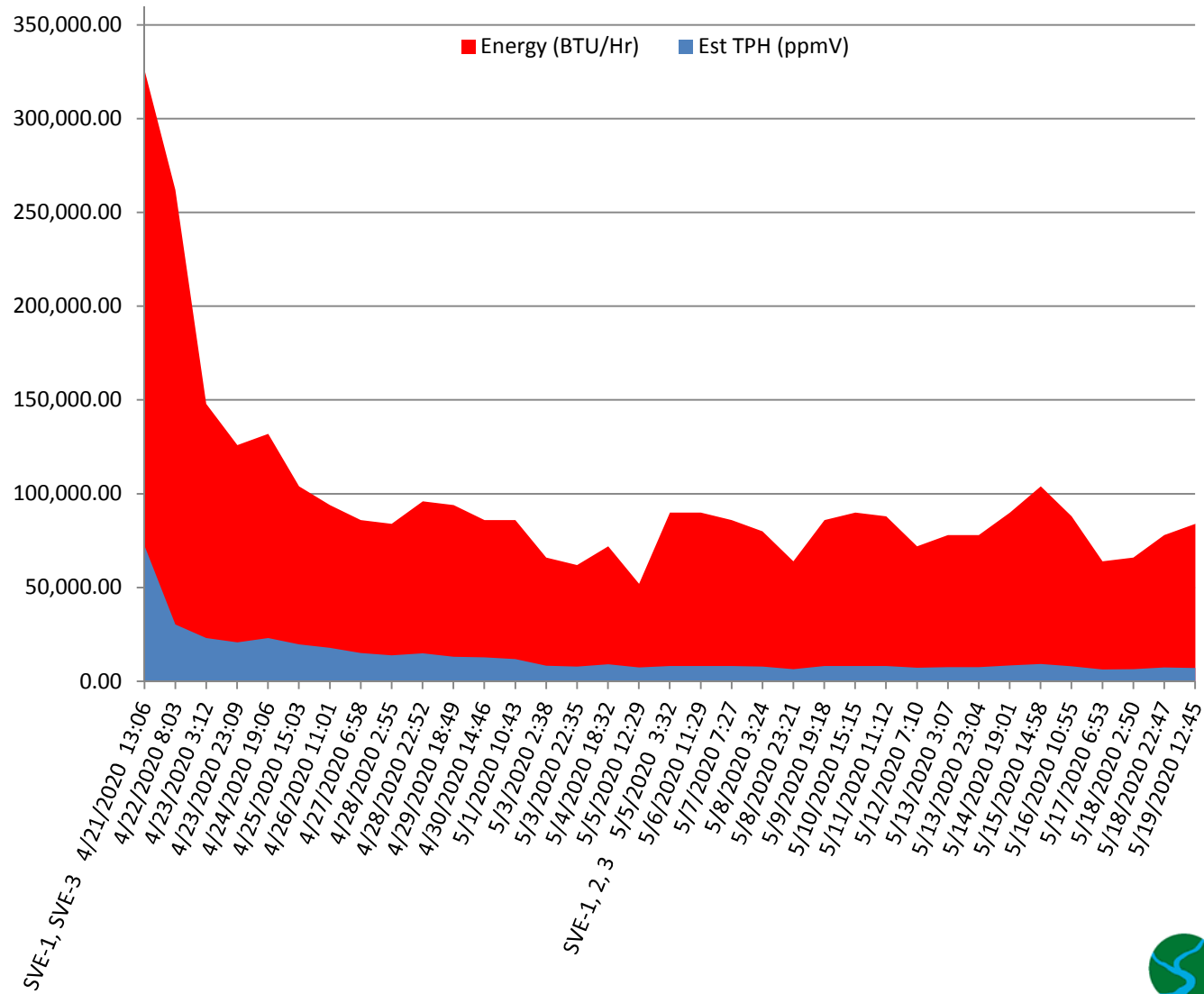
*- The Influent #1 air sample result of 73,600 ppmv was omitted from the above calculations due to being skewed high. This elevated concentration was only encountered within the first day of operation and begins to sharply decrease thereafter as shown within the engine datalogger tables upon start-up of the recovery event. Therefore, the Unit Controller / BTU calculated vapor recovery of 821.9 gallons is utilized for total vapor recovery as it represents recorded real-time recovery for every hour of unit operations during the recovery events.

FIGURES

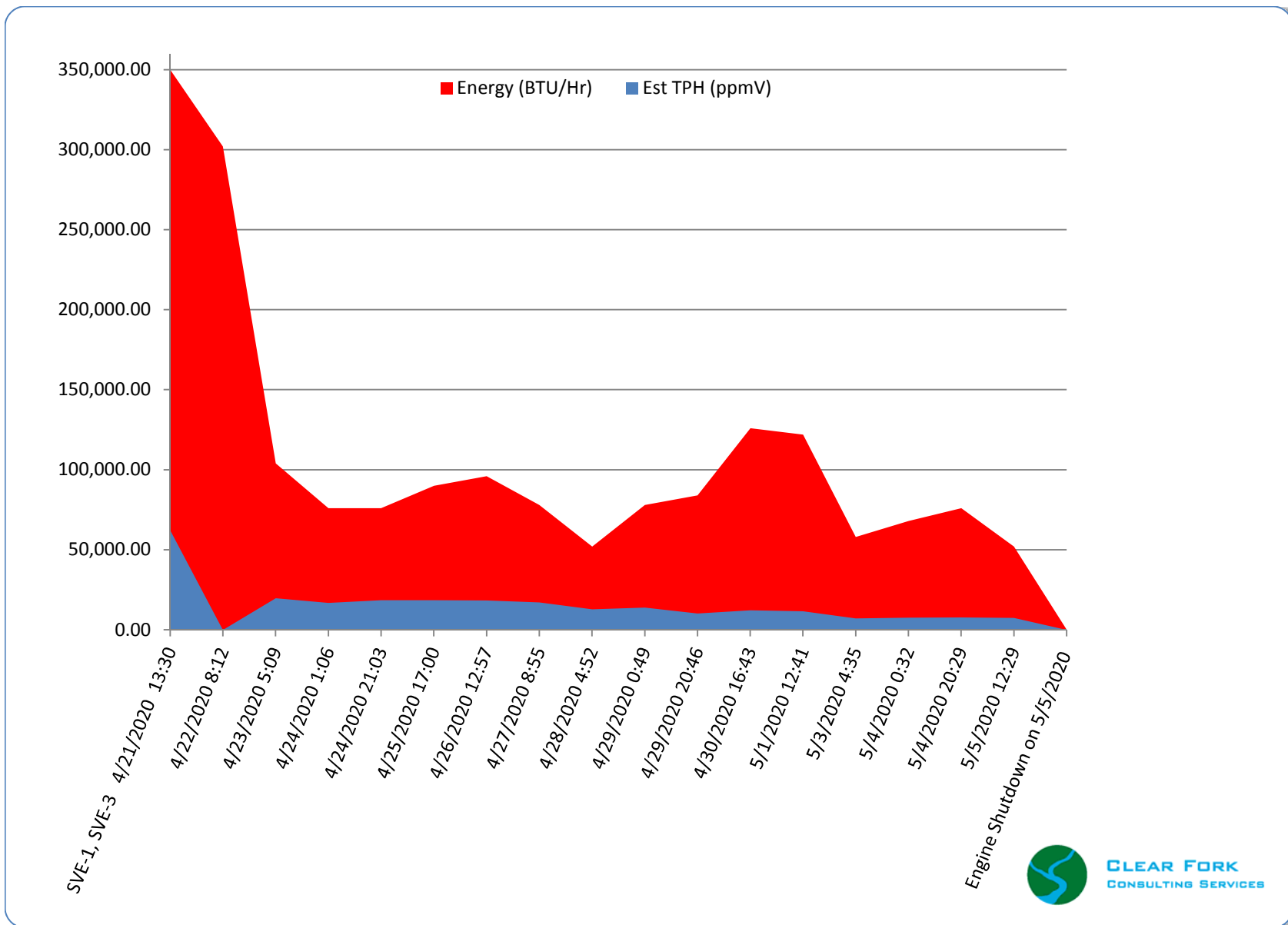


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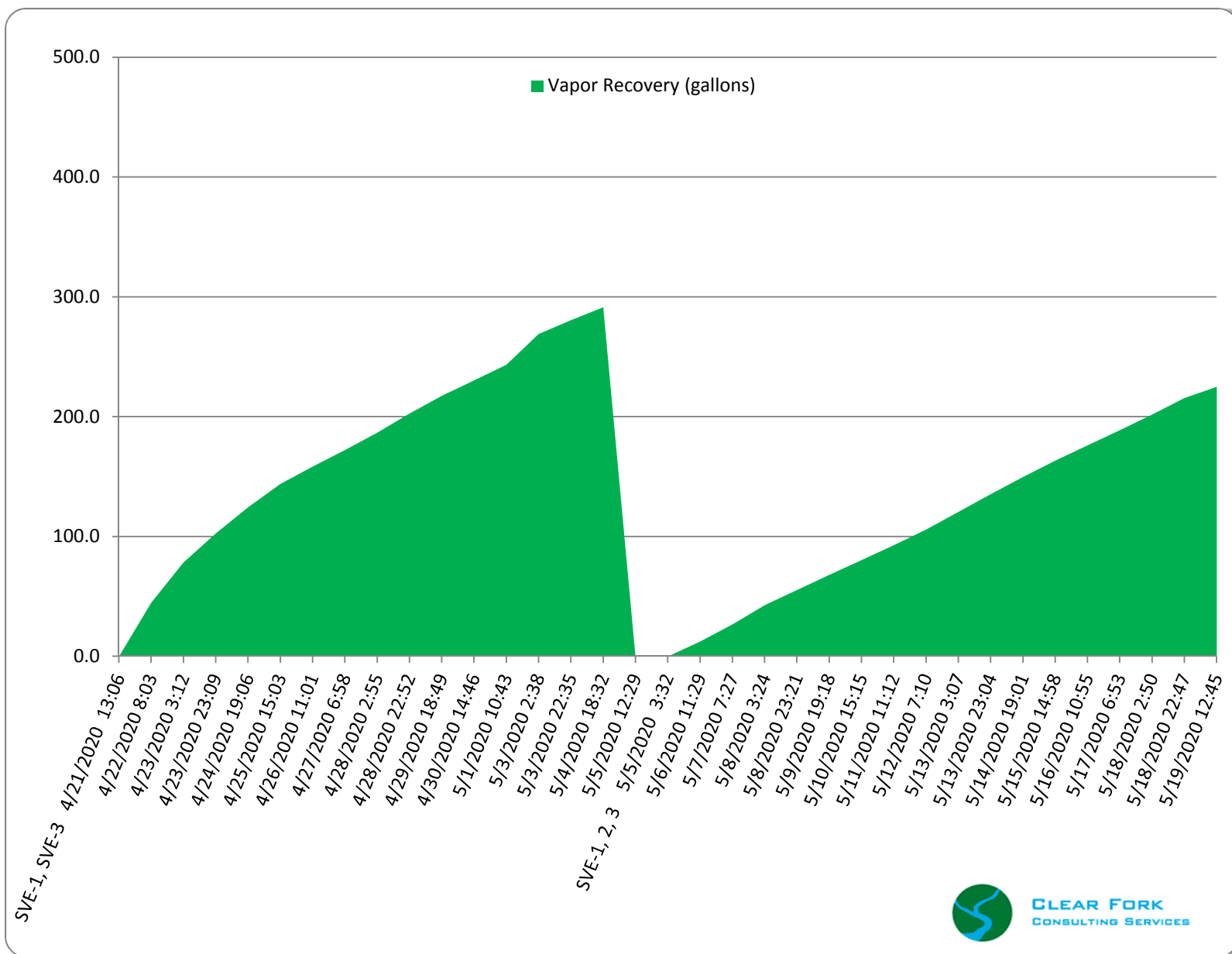
Energy BTU per Hour and Estimated ppmV ENGINE 1 - SVE-1, SVE-2, SVE-3 April 21-May 19, 2020



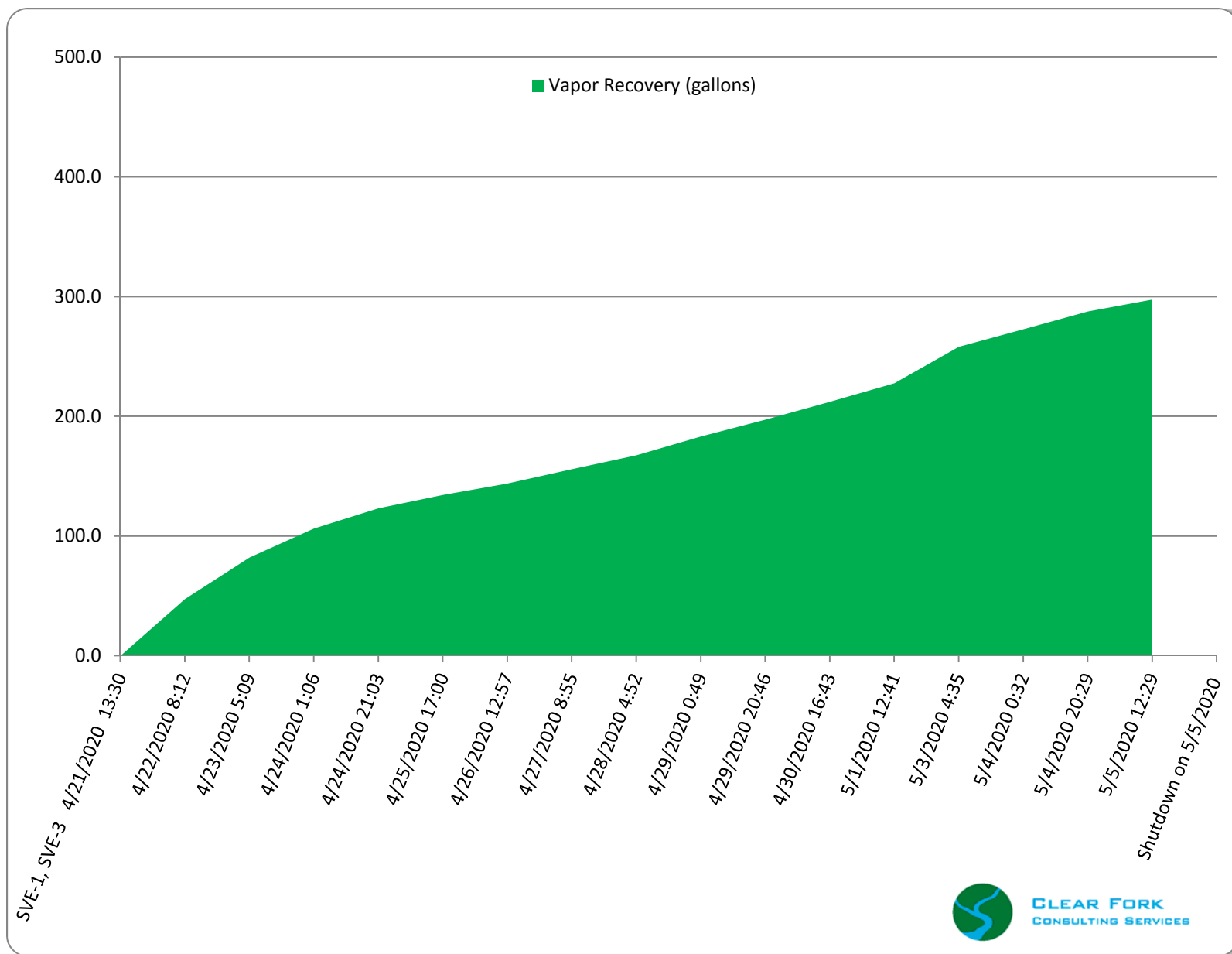
Energy BTU per Hour and Estimated ppmV ENGINE 2 - SVE-1, SVE-3 April 21-May19, 2020



Hydrocarbon Recovery (gallons) ENGINE 1 - SVE-1, SVE-2, SVE-3 April 21-May 19, 2020



Hydrocarbon Recovery (gallons) ENGINE 2 - SVE-1, SVE-3 April 21-May 19, 2020



LABORATORY ANALYTICAL **REPORT**



CLEAR FORK
CONSULTING SERVICES



Certificate of Analysis Summary 659821

Clear Fork Consulting Services, Decatur, TX

Project Name: Energy Transfer Site

Project Id: 80-029
Contact: John Hanley
Project Location: Monument, NM

Date Received in Lab: Mon 04.27.2020 08:30
Report Date: 04.30.2020 09:53
Project Manager: Holly Taylor

Analysis Requested	Lab Id: 659821-001 Field Id: Influent #1 Depth: Matrix: AIR Sampled: 04.22.2020 09:05					
BTEX-MTBE by EPA 8021B	Extracted: 04.27.2020 13:00 Analyzed: 04.27.2020 14:35 Units/RL: MGM3 RL					
Benzene	735 + 50.0					
Toluene	2140 + 50.0					
Ethylbenzene	670 + 50.0					
m,p-Xylenes	770 + 100					
o-Xylene	195 + 50.0					
MTBE	450 + 50.0					
Total Xylenes	965 + 50.0					
Total BTEX	4510 + 50.0					
TPH GRO by EPA 8015 Mod.	Extracted: 04.27.2020 13:00 Analyzed: 04.27.2020 15:30 Units/RL: MGM3 RL					
TPH-GRO	288000 K+ 12500					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager



Analytical Report 659821

for

Clear Fork Consulting Services

Project Manager: John Hanley

Energy Transfer Site

80-029

04.30.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



04.30.2020

Project Manager: **John Hanley**
Clear Fork Consulting Services
PO Box 1327
Decatur, TX 76234

Reference: XENCO Report No(s): **659821**
Energy Transfer Site
Project Address: Monument, NM

John Hanley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659821. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659821 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 659821

Clear Fork Consulting Services, Decatur, TX

Energy Transfer Site

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Influent #1	A	04.22.2020 09:05		659821-001



CASE NARRATIVE

Client Name: Clear Fork Consulting Services

Project Name: Energy Transfer Site

Project ID: 80-029
Work Order Number(s): 659821

Report Date: 04.30.2020
Date Received: 04.27.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3124341 TPH GRO by EPA 8015 Mod.

SW8015GRO

Batch 3124341,

TPH-GRO recovered above QC limits in the Blank Spike Duplicate indicating a potential high bias.

Samples in the analytical batch are: 659821-001.



Certificate of Analytical Results 659821

Clear Fork Consulting Services, Decatur, TX Energy Transfer Site

Sample Id: **Influent #1** Matrix: Air Date Received: 04.27.20 08.30
 Lab Sample Id: 659821-001 Date Collected: 04.22.20 09.05
 Analytical Method: BTEX-MTBE by EPA 8021B Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 04.27.20 13.00
 Seq Number: 3124340

Parameter	Cas Number	Result ppmv	RL ppmv	Result mg/m3	RL mg/m3	Analysis Date	Flag	Dil
Benzene	71-43-2	230	15.7	735	50.0	04.27.20 14.35	+	50
Toluene	108-88-3	568	13.3	2140	50.0	04.27.20 14.35	+	50
Ethylbenzene	100-41-4	154	11.5	670	50.0	04.27.20 14.35	+	50
m,p-Xylenes	179601-23-1	177	23.0	770	100	04.27.20 14.35	+	50
o-Xylene	95-47-6	44.9	11.5	195	50.0	04.27.20 14.35	+	50
MTBE	1634-04-4	125	13.9	450	50.0	04.27.20 14.35	+	50
Total Xylenes	1330-20-7	222	11.5	965	50.0	04.27.20 14.35	+	50
Total BTEX		1170	11.5	4510	50.0	04.27.20 14.35	+	50

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 04.27.20 13.00
 Seq Number: 3124341

Parameter	Cas Number	Result ppmv	RL ppmv	Result mg/m3	RL mg/m3	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	73600	3200	288000	12500	04.27.20 15.30	K+	50



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Clear Fork Consulting Services Energy Transfer Site

Analytical Method: BTEX-MTBE by EPA 8021B

Seq Number: 3124340

MB Sample Id: 7702182-1-BLK

Matrix: Air

LCS Sample Id: 7702182-1-BKS

Prep Method: SW5030B

Date Prep: 04.27.2020

LCSD Sample Id: 7702182-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<1.00	100	99.3	99	101	101	72-120	2	20	MGM3	04.27.2020 17:01	
Toluene	<1.00	100	98.9	99	101	101	75-120	2	20	MGM3	04.27.2020 17:01	
Ethylbenzene	<1.00	100	96.3	96	97.7	98	74-120	1	20	MGM3	04.27.2020 17:01	
m,p-Xylenes	<2.00	200	195	98	199	100	73-120	2	20	MGM3	04.27.2020 17:01	
o-Xylene	<1.00	100	97.2	97	100	100	73-120	3	20	MGM3	04.27.2020 17:01	
MTBE	<1.00	100	106	106	106	106	71-120	0	20	MGM3	04.27.2020 17:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		98		95		67-120	%	04.27.2020 17:01

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3124341

MB Sample Id: 7702183-1-BLK

Matrix: Air

LCS Sample Id: 7702183-1-BKS

Prep Method: SW5030B

Date Prep: 04.27.2020

LCSD Sample Id: 7702183-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<250	1000	1200	120	1200	120	76-120	0	20	MGM3	04.27.2020 18:14	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Work Order No: 15382

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

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Page 1 of 1

Page 1 of 1

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg
 Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client.

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	Relinquished by: (Signature)		Received by: (Signature)		Date/Time
1				4/27/20	2				
3					4				
5					6				

Revised Date 051418 Rev. 2018.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Clear Fork Consulting Services

Date/ Time Received: 04.27.2020 08.30.00 AM

Work Order #: 659821

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R4

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	21.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Ashley Derstine

Date: 04.27.2020

Checklist reviewed by:



Holly Taylor

Date: 04.27.2020



Certificate of Analysis Summary 660994

Clear Fork Consulting Services, Decatur, TX

Project Name: 80-029 Monument, NM

Project Id: Energy Transfer Site

Contact: John Hanley

Project Location: Monument, NM

Date Received in Lab: Fri 05.08.2020 09:40

Report Date: 05.14.2020 13:50

Project Manager: Holly Taylor

Analysis Requested	Lab Id: 660994-001 Field Id: Influent #2 Depth: Matrix: AIR Sampled: 05.05.2020 13:10					
BTEX-MTBE by EPA 8021B SUB: T104704215-19-30	Extracted: 05.08.2020 11:00 Analyzed: 05.08.2020 12:20 Units/RL: MGM3 RL					
Benzene	125 + 50.0					
Toluene	540 + 50.0					
Ethylbenzene	280 + 50.0					
m,p-Xylenes	370 + 100					
o-Xylene	120 + 50.0					
MTBE	<50.0 50.0					
Total Xylenes	490 + 50.0					
Total BTEX	1440 + 50.0					
TPH GRO by EPA 8015 Mod. SUB: T104704215-19-30	Extracted: 05.08.2020 11:00 Analyzed: 05.08.2020 12:20 Units/RL: MGM3 RL					
TPH-GRO	66300 + 12500					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager



Analytical Report 660994

for

Clear Fork Consulting Services

Project Manager: John Hanley

80-029 Monument, NM

Energy Transfer Site

05.14.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.14.2020

Project Manager: **John Hanley**
Clear Fork Consulting Services
PO Box 1327
Decatur, TX 76234

Reference: XENCO Report No(s): **660994**
80-029 Monument, NM
Project Address: Monument, NM

John Hanley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 660994. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 660994 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'. The signature is written in a cursive, flowing style.

Holly Taylor
Project Manager

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 660994

Clear Fork Consulting Services, Decatur, TX

80-029 Monument, NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Influent #2	A	05.05.2020 13:10		660994-001



CASE NARRATIVE

Client Name: *Clear Fork Consulting Services*

Project Name: *80-029 Monument, NM*

Project ID: *Energy Transfer Site*
Work Order Number(s): *660994*

Report Date: *05.14.2020*
Date Received: *05.08.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 660994

Clear Fork Consulting Services, Decatur, TX
80-029 Monument, NM

Sample Id: Influent #2	Matrix: Air	Date Received: 05.08.20 09.40
Lab Sample Id: 660994-001	Date Collected: 05.05.20 13.10	
Analytical Method: BTEX-MTBE by EPA 8021B		Prep Method: SW5030B
Tech: MIT		% Moisture:
Analyst: MIT	Date Prep: 05.08.20 11.00	
Seq Number: 3125579		SUB: T104704215-19-30

Parameter	Cas Number	Result ppmv	RL ppmv	Result mg/m3	RL mg/m3	Analysis Date	Flag	Dil
Benzene	71-43-2	39.1	15.7	125	50.0	05.08.20 12.20	+	50
Toluene	108-88-3	143	13.3	540	50.0	05.08.20 12.20	+	50
Ethylbenzene	100-41-4	64.5	11.5	280	50.0	05.08.20 12.20	+	50
m,p-Xylenes	179601-23-1	85.3	23.0	370	100	05.08.20 12.20	+	50
o-Xylene	95-47-6	27.6	11.5	120	50.0	05.08.20 12.20	+	50
MTBE	1634-04-4	<13.9	13.9	<50.0	50.0	05.08.20 12.20	U+	50
Total Xylenes	1330-20-7	113	11.5	490	50.0	05.08.20 12.20	+	50
Total BTEX		360	11.5	1440	50.0	05.08.20 12.20	+	50

Analytical Method: TPH GRO by EPA 8015 Mod.		Prep Method: SW5030B
Tech: MIT		% Moisture:
Analyst: MIT	Date Prep: 05.08.20 11.00	
Seq Number: 3125581		SUB: T104704215-19-30

Parameter	Cas Number	Result ppmv	RL ppmv	Result mg/m3	RL mg/m3	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	16900	3200	66300	12500	05.08.20 12.20	+	50



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Clear Fork Consulting Services
80-029 Monument, NM

Analytical Method: BTEX-MTBE by EPA 8021B

Seq Number: 3125579

MB Sample Id: 7703065-1-BLK

Matrix: Air

LCS Sample Id: 7703065-1-BKS

Prep Method: SW5030B

Date Prep: 05.08.2020

LCSD Sample Id: 7703065-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<1.00	100	99.6	100	96.1	96	72-120	4	20	MGM3	05.08.2020 07:43	
Toluene	<1.00	100	100	100	96.9	97	75-120	3	20	MGM3	05.08.2020 07:43	
Ethylbenzene	<1.00	100	96.3	96	93.3	93	74-120	3	20	MGM3	05.08.2020 07:43	
m,p-Xylenes	<2.00	200	194	97	188	94	73-120	3	20	MGM3	05.08.2020 07:43	
o-Xylene	<1.00	100	97.0	97	94.8	95	73-120	2	20	MGM3	05.08.2020 07:43	
MTBE	<1.00	100	107	107	102	102	71-120	5	20	MGM3	05.08.2020 07:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		97		96		67-120	%	05.08.2020 07:43

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3125581

MB Sample Id: 7703066-1-BLK

Matrix: Air

LCS Sample Id: 7703066-1-BKS

Prep Method: SW5030B

Date Prep: 05.08.2020

LCSD Sample Id: 7703066-1-BSD

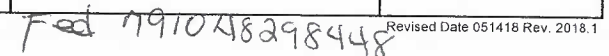
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<250	1000	1070	107	1060	106	76-120	1	20	MGM3	05.08.2020 08:31	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Clear Fork Consulting Services**Date/ Time Received:** 05.08.2020 09.40.00 AM**Work Order #:** 660994**Acceptable Temperature Range:** 0 - 6 degC**Air and Metal samples Acceptable Range:** Ambient**Temperature Measuring device used :** IR-4

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	21.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	N/A
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:
Brenda Ward

Date: 05.08.2020

Checklist reviewed by:
Holly Taylor

Date: 05.11.2020



Certificate of Analysis Summary 662367

Clear Fork Consulting Services, Decatur, TX

Project Name: ETC Site

Project Id: 80-029
Contact: John Hanley
Project Location: Monument, NM

Date Received in Lab: Fri 05.22.2020 09:32
Report Date: 05.27.2020 14:27
Project Manager: Holly Taylor

Analysis Requested	Lab Id: 662367-001 Field Id: Influent #3 Depth: Matrix: AIR Sampled: 05.19.2020 12:00					
BTEX-MTBE by EPA 8021B	Extracted: 05.22.2020 10:30 Analyzed: 05.22.2020 11:57 Units/RL: MGM3 RL					
Benzene	<50.0	50.0				
Toluene	320 +	50.0				
Ethylbenzene	205 +	50.0				
m,p-Xylenes	295 +	100				
o-Xylene	100 +	50.0				
MTBE	<50.0	50.0				
Total Xylenes	395 +	50.0				
Total BTEX	920 +	50.0				
TPH GRO by EPA 8015 Mod.	Extracted: 05.22.2020 10:30 Analyzed: 05.22.2020 11:57 Units/RL: MGM3 RL					
TPH-GRO	57400 +	12500				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager



Analytical Report 662367

for

Clear Fork Consulting Services

Project Manager: John Hanley

ETC Site

80-029

05.27.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.27.2020

Project Manager: **John Hanley**
Clear Fork Consulting Services
PO Box 1327
Decatur, TX 76234

Reference: XENCO Report No(s): **662367**
ETC Site
Project Address: Monument, NM

John Hanley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 662367. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

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We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 662367

Clear Fork Consulting Services, Decatur, TX

ETC Site

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Influent #3	A	05.19.2020 12:00		662367-001



CASE NARRATIVE

Client Name: Clear Fork Consulting Services

Project Name: ETC Site

Project ID: 80-029
Work Order Number(s): 662367

Report Date: 05.27.2020
Date Received: 05.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 662367

Clear Fork Consulting Services, Decatur, TX ETC Site

Sample Id: **Influent #3** Matrix: Air Date Received: 05.22.20 09.32
 Lab Sample Id: 662367-001 Date Collected: 05.19.20 12.00
 Analytical Method: BTEX-MTBE by EPA 8021B Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 05.22.20 10.30
 Seq Number: 3126952

Parameter	Cas Number	Result ppmv	RL ppmv	Result mg/m3	RL mg/m3	Analysis Date	Flag	Dil
Benzene	71-43-2	<15.7	15.7	<50.0	50.0	05.22.20 11.57	U+	50
Toluene	108-88-3	84.9	13.3	320	50.0	05.22.20 11.57	+	50
Ethylbenzene	100-41-4	47.2	11.5	205	50.0	05.22.20 11.57	+	50
m,p-Xylenes	179601-23-1	68.0	23.0	295	100	05.22.20 11.57	+	50
o-Xylene	95-47-6	23.0	11.5	100	50.0	05.22.20 11.57	+	50
MTBE	1634-04-4	<13.9	13.9	<50.0	50.0	05.22.20 11.57	U+	50
Total Xylenes	1330-20-7	91.0	11.5	395	50.0	05.22.20 11.57	+	50
Total BTEX		223	11.5	920	50.0	05.22.20 11.57	+	50

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 05.22.20 10.30
 Seq Number: 3126954

Parameter	Cas Number	Result ppmv	RL ppmv	Result mg/m3	RL mg/m3	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	14700	3200	57400	12500	05.22.20 11.57	+	50



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Clear Fork Consulting Services ETC Site

Analytical Method: BTEX-MTBE by EPA 8021B

Seq Number: 3126952

Matrix: Air

Prep Method: SW5030B

Date Prep: 05.22.2020

MB Sample Id: 7703938-1-BLK

LCS Sample Id: 7703938-1-BKS

LCSD Sample Id: 7703938-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<1.00	100	95.1	95	93.1	93	72-120	2	20	MGM3	05.21.2020 21:14	
Toluene	<1.00	100	97.4	97	95.6	96	75-120	2	20	MGM3	05.21.2020 21:14	
Ethylbenzene	<1.00	100	94.4	94	94.9	95	74-120	1	20	MGM3	05.21.2020 21:14	
m,p-Xylenes	<2.00	200	190	95	191	96	73-120	1	20	MGM3	05.21.2020 21:14	
o-Xylene	<1.00	100	95.4	95	95.9	96	73-120	1	20	MGM3	05.21.2020 21:14	
MTBE	<1.00	100	95.1	95	93.8	94	71-120	1	20	MGM3	05.21.2020 21:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		85		93		67-120	%	05.21.2020 21:14

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3126954

Matrix: Air

Prep Method: SW5030B

Date Prep: 05.22.2020

MB Sample Id: 7703939-1-BLK

LCS Sample Id: 7703939-1-BKS

LCSD Sample Id: 7703939-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<250	1000	1110	111	1120	112	76-120	1	20	MGM3	05.21.2020 22:03	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Chain of Custody

Work Order No: 662367

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 1 of 1

Project Manager:		John Hanley	Bill to: (if different)		Sgme
Company Name:		Clear Fork	Company Name:		
Address:		POB 1327	Address:		
City, State ZIP:		Decatur TX 76234	City, State ZIP:		
Phone:		940 626 8088	Email:		

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>		TCLP / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			5/22/2020	A.32		
3						
5						

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Clear Fork Consulting Services

Date/ Time Received: 05.22.2020 09.32.00 AM

Work Order #: 662367

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-4

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	21.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	N/A
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:


Brenda Ward

Date: 05.22.2020

Checklist reviewed by:


Holly Taylor

Date: 05.27.2020



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

Charles Neligh

Charles.Neligh@ghd.com
505.884.0672

Christine Mathews

Christine.Mathews@ghd.com
505.269.0088

www.ghd.com

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 23311

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 23311
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Annual Report: Content satisfactory Contractor recommendations approved by OCD and are as follows; 1. Perform additional MDPE events to remove vapor phase and liquid phase hydrocarbons from the subsurface via SVE wells 2. Perform quarterly groundwater monitoring for BTEX and chloride	12/29/2021