



January 25, 2021

Dylan Rose-Coss
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Review of 2020 Groundwater Sampling
and MW-1R Pumping Report:
Content satisfactory

1. Continued quarterly groundwater monitoring and quarterly pumping of monitor well MW-1R
2. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022

**Re: 2020 Groundwater Sampling and MW-1R Pumping Report
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery,
Section 22, Township 22 South, Range 37 East,
Lea County, New Mexico.
NMOCD Abatement Plan (AP-088)**

Mr. Rose-Coss,

This report summarizes the results of the quarterly sampling and quarterly pumping events for monitor well MW-1R which occurred during 2020 for the E. M. Elliott Tank Battery (Site). The Site is located in Lea County, Section 22, Township 22 South, Range 37 East, approximately 4 miles south of Eunice, New Mexico. The GPS coordinates for the Site are 32.38266°N, 103.15517°W. Prior to OXY USA, Inc. (OXY) acquiring the property in March 2018, the facility was operated by Plains Exploration and Production (PXP), Pogo Producing Company (Pogo), and Latigo Petroleum, Inc. (Latigo). The Site location is shown on **Figures 1 and 2**.

FACILITY BACKGROUND

As part of a due diligence assessment for Pogo, the Site was inspected and soil sampling was performed to investigate areas where visual evidence of historic spills was observed.

Four impacted areas were investigated north and south of the facility and inside the containment dike. One auger hole and one borehole were installed in an area measuring 25' x 30'. One auger hole was placed in the second impacted area measuring 10' x 10'. Two auger holes were placed in a third impacted area measuring 6' x 15'. The auger holes could only be advanced to depths of 1.0'-1.5' below ground surface (bgs) due to the presence of a dense caliche layer. Elevated chloride concentrations were detected in three of the six auger hole samples analyzed. Total Petroleum Hydrocarbon (TPH) concentrations were above the New Mexico Oil Conservation Division (OCD) Recommended Remedial Action Level (RRAL) of 5,000 milligrams per kilogram all six of the auger holes. Auger holes AH-1, AH-4 and AH-6 had TPH concentrations above the RRAL on the 0-1.0' sample, which declined to below the RRAL in the 1.0'-1.5' samples. Access was restricted inside the dike; therefore, the borehole BH-1 was drilled just outside the dike, close to AH-1, AH-2 and AH-5. In BH-1, the TPH concentrations declined to below the RRAL in the 30'-32' sample.

Tetra Tech

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Based on the results, borehole BH-1 was converted to a temporary 2-inch monitor well. Groundwater was encountered at approximately 70 feet below the top of casing (TOC). On September 25, 2006 and May 15, 2007, the temporary well was purged and sampled for analyses of chlorides and benzene, toluene, ethylbenzene and xylenes (BTEX). Chloride concentrations exceeded New Mexico Water Quality Control Commission (NMWQCC) standard of 250 milligrams per liter (mg/L) while BTEX concentrations were below the NMWQCC standards.

In accordance with NM Rule 116 the OCD Environmental Bureau director was notified in writing on June 25, 2007 of groundwater impact at the Site. The OCD responded with a request for a Stage 1 Abatement Plan for the facility.

On July 9, 2008, a Stage 1 Abatement Plan addressing the soil and groundwater impacts at the Site was submitted to the OCD-Santa Fe, New Mexico office. The Stage 1 Abatement Plan concluded that chloride concentrations in groundwater had not been delineated and that no BTEX constituents exceeded NMWQCC standards. No receptors were found in the vicinity of the Site. Quarterly groundwater gauging and sampling was proposed to commence during the third quarter of 2008. Additional monitor wells were proposed to delineate the chloride impacts to groundwater.

On September 12, 2011, monitor wells MW-2 and MW-3 were installed down gradient and up gradient, respectively, from monitor well MW-1. Monitor wells MW-4 and MW-5 were installed on September 7, 2016 for cross gradient delineation. On September 8, 2016, monitor well MW-1R was drilled as a replacement for monitor well MW-1. Monitor well MW-1R was constructed as a 4-inch diameter well for potential use as a groundwater recovery well. Monitor well MW-1 was plugged on September 12, 2016.

GAUGING AND MONITOR WELL SAMPLING

All five monitor wells at the site (MW-1R, MW-2, MW-3, MW-4, and MW-5) were sampled on a quarterly basis during 2020. During each groundwater sampling event, the monitor wells were gauged with an electronic water level meter. The gauging data is summarized in **Table 1**. No Phase Separated Hydrocarbons (PSH) were measured in any of the monitor wells. The hydraulic gradient was generally to the southeast during each of the sampling events. Potentiometric gradient maps for each of the quarterly sampling events in 2020 are included as **Figures 4** through **7**.

During each groundwater sampling event, the monitor wells were purged to remove approximately three well casing volumes of water using disposable rope or twine with a new polyethylene bailer for each well. The sample bottles were filled directly from the bailers. The sample bottles were placed on ice and shipped under proper chain-of-custody control to ALS Laboratories of Houston, Texas for analysis of BTEX by EPA Method SW8260 and chlorides by EPA Method E300.

Analytical results indicate that BTEX concentrations were below method detection limits during all of the sampling events. All BTEX method detection limits values were below New Mexico Water Quality Control Commission (NMWQCC) standards.



Chloride analytical results for monitor wells MW-2, MW-3 and MW-5 were below NMWQCC standards during each of the four 2020 sampling events. The chloride analytical results for monitor well MW-1R and MW-4 exceeded the NMWQCC standards during each of the four 2020 sampling events. Chloride concentrations in monitor well MW-4 ranged from 818 mg/L on August 11, 2020 to 1,070 mg/L on February 18, 2020 which are within the range of previously detected concentrations.

Chloride concentrations in monitor well MW-1R ranged from 7,980 mg/L on May 4, 2020 to 11,700 mg/L on November 16, 2020. All other chloride concentrations detected in monitor well MW-1R during 2020 were within the range of previously detected concentrations.

Graphs of chloride concentrations versus groundwater elevations for each of the monitor wells are included in **Appendix A**. The graphs for monitor wells MW-2, MW-3, and MW-5 indicate generally stable chloride concentration trends. For the two monitor wells with chloride concentrations exceeding the NMWQCC standards, monitor well MW-4 exhibits a generally stable trend during the reporting period and monitor well MW-1R has a generally increasing trend during this reporting period, climbing to a concentration of 11,700 mg/L on November 16, 2020. The groundwater elevation also increased to 3,299.31 feet above sea level on both sampling dates in 2020. This is the highest groundwater elevation measured on any previous sampling date and appears to correlate with the increasing chloride concentration trend.

Chloride concentration maps for the four quarterly monitoring events in 2020 are included as **Figures 8** through **11**. The groundwater analytical data is summarized in **Table 2**. Copies of the laboratory analytical reports are included in **Appendix B**.

QUARTERLY PUMPING OF MONITOR WELL MW-1R

Monitor well MW-1R was pumped dry on a quarterly basis during 2020 to recover chloride impacted groundwater. A total of approximately 81.5 gallons of groundwater was recovered in 2020. All recovered groundwater is temporarily stored onsite in 55-gallon drums prior to being transported and disposed of offsite. As noted above, the increasing chloride concentration in monitor well MW-1R appears to correlate with increasing groundwater elevation.

CONCLUSIONS

1. Analytical results indicate that BTEX concentrations were below method detection limits each of the quarterly sampling events in 2020. All BTEX method detection limits values were below NMWQCC standards.
2. PSH has never been observed in any monitor wells at this Site.
3. Chloride analytical results for monitor wells MW-2, MW-3 and MW-5 were below NMWQCC standards during each of the 2020 sampling events.
4. The graphs for monitor wells MW-2, MW-3, and MW-5 indicate generally stable chloride concentration trends.



5. The chloride analytical results for monitor well MW-1R and MW-4 exceeded the NMWQCC standards during each of the four 2020 sampling events.
6. Monitor well MW-4 chloride concentrations exhibit a generally stable trend during the reporting period. Monitor well MW-1R has a generally increasing trend during this reporting period, climbing to a concentration of 11,700 mg/L on November 16, 2020 which appears to be correlated with an increasing groundwater elevation trend.

PROPOSED 2021 GROUNDWATER MONITORING PROGRAM

Continued quarterly groundwater monitoring and quarterly pumping of monitor well MW-1R is proposed for 2021.

If you have any questions or comments concerning this report, please feel free to contact Ray Cheatham at (713) 203-0852.

Respectfully submitted,
Tetra Tech, Inc.

Reviewed by:

A handwritten signature in blue ink, appearing to read 'R Cheatham'.

A handwritten signature in blue ink, appearing to read 'G W Pope'.

Ray Cheatham
Principal Geologist

Greg W. Pope
Principal Geologist

Attachments:

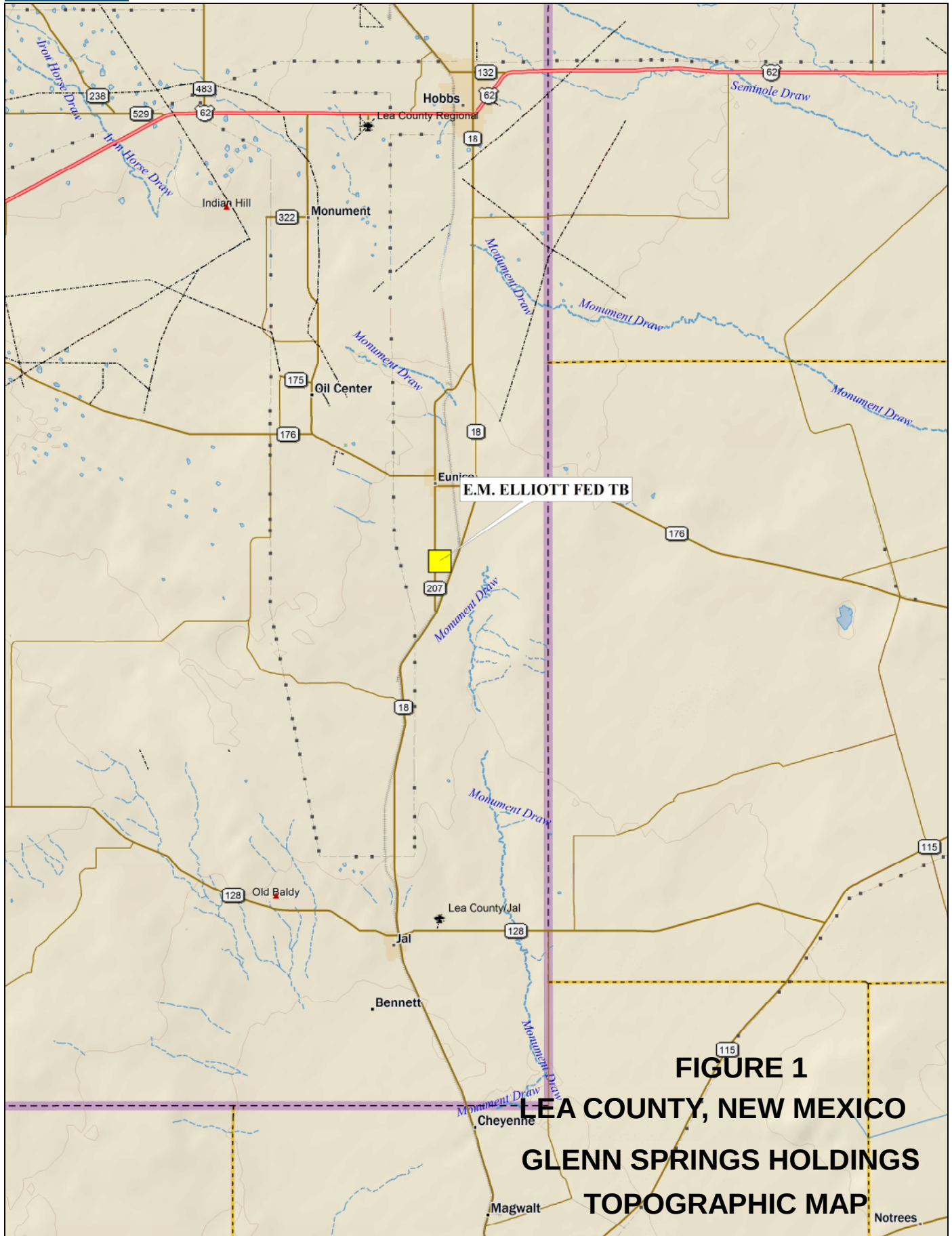
Figures
Tables
Appendix A – Graphs
Appendix B – Lab Reports

cc: Dusty Wilson – Glenn Springs Holdings, Inc.

Figures



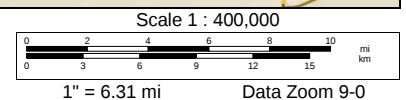
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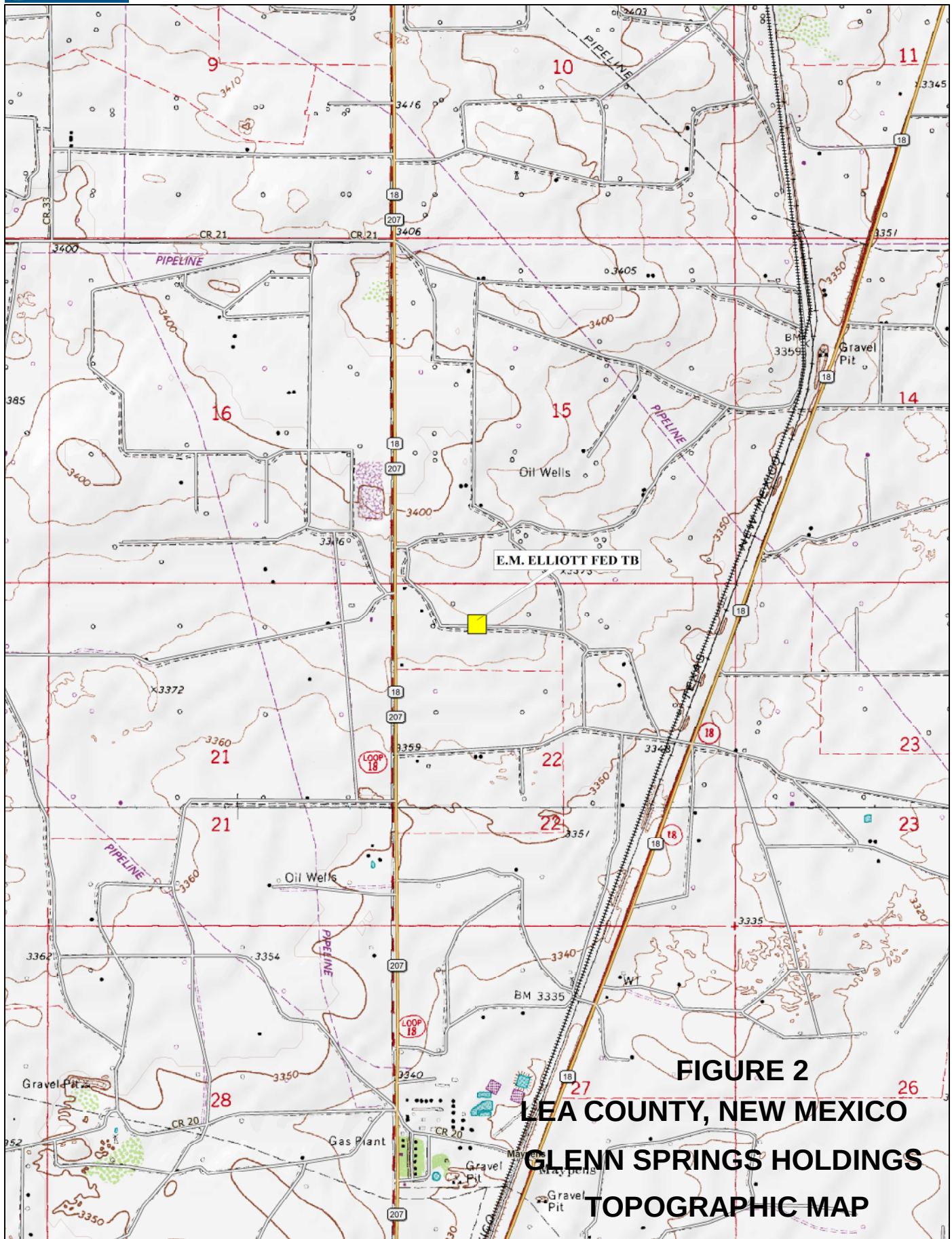
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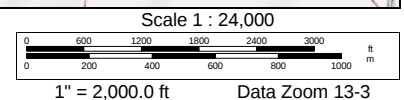
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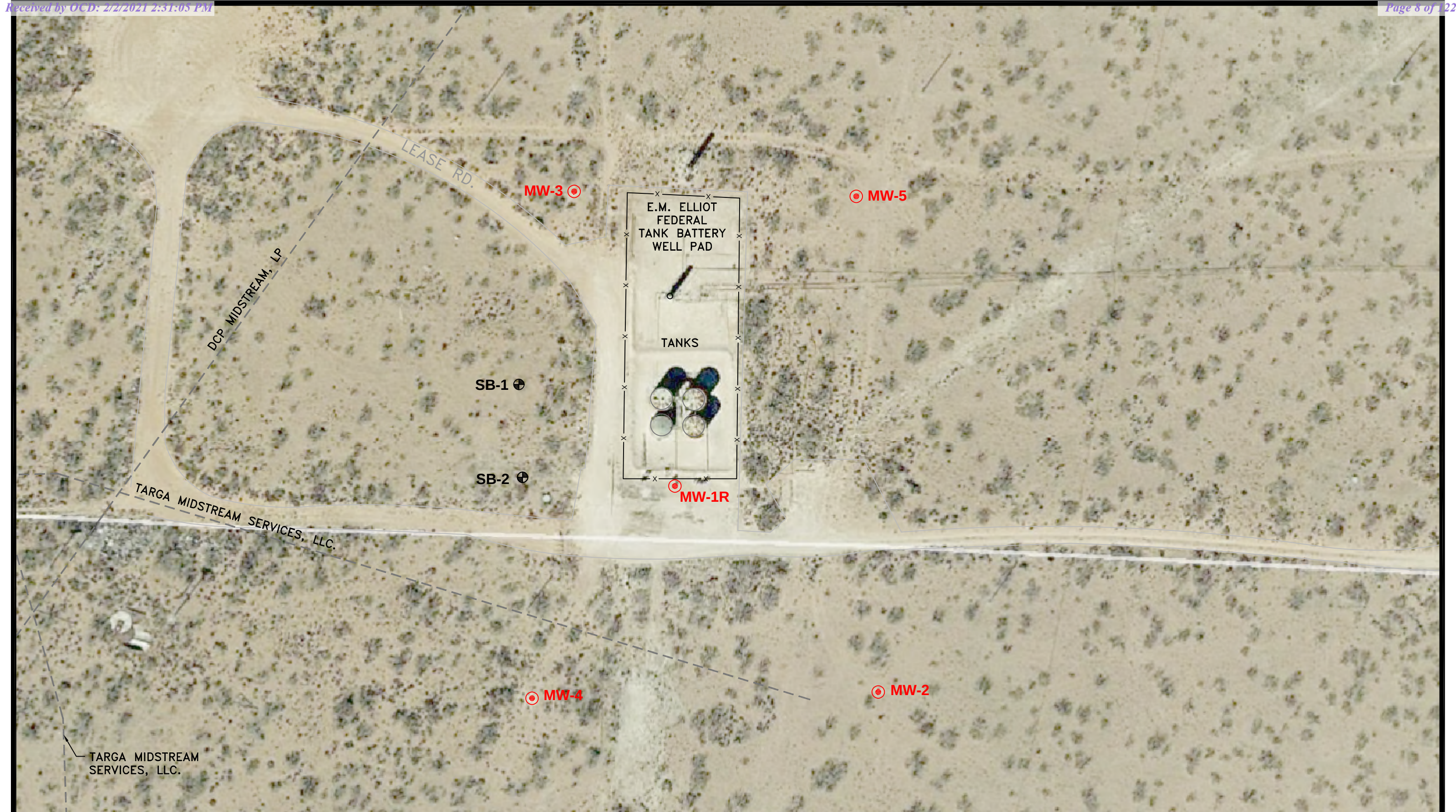


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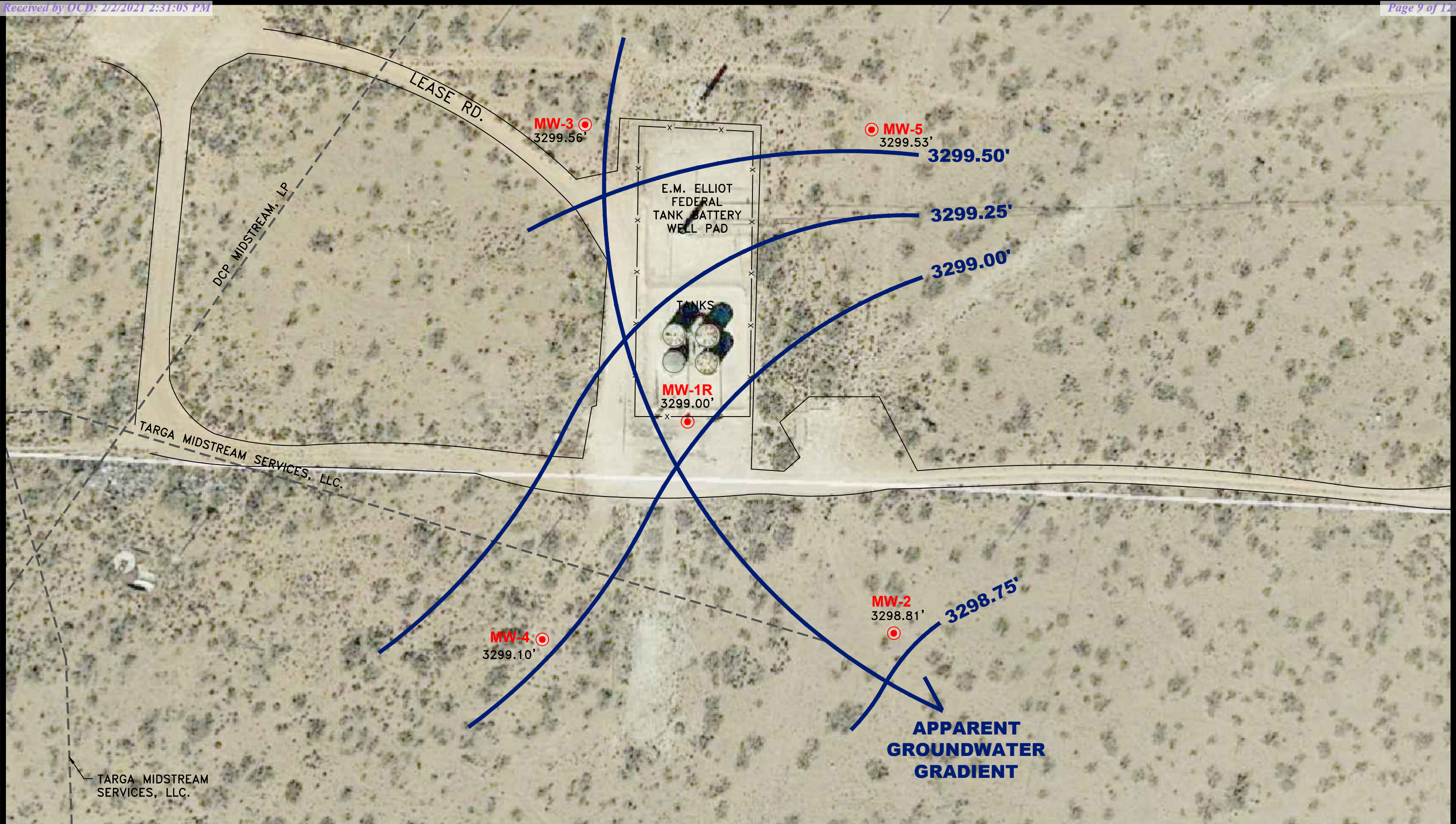
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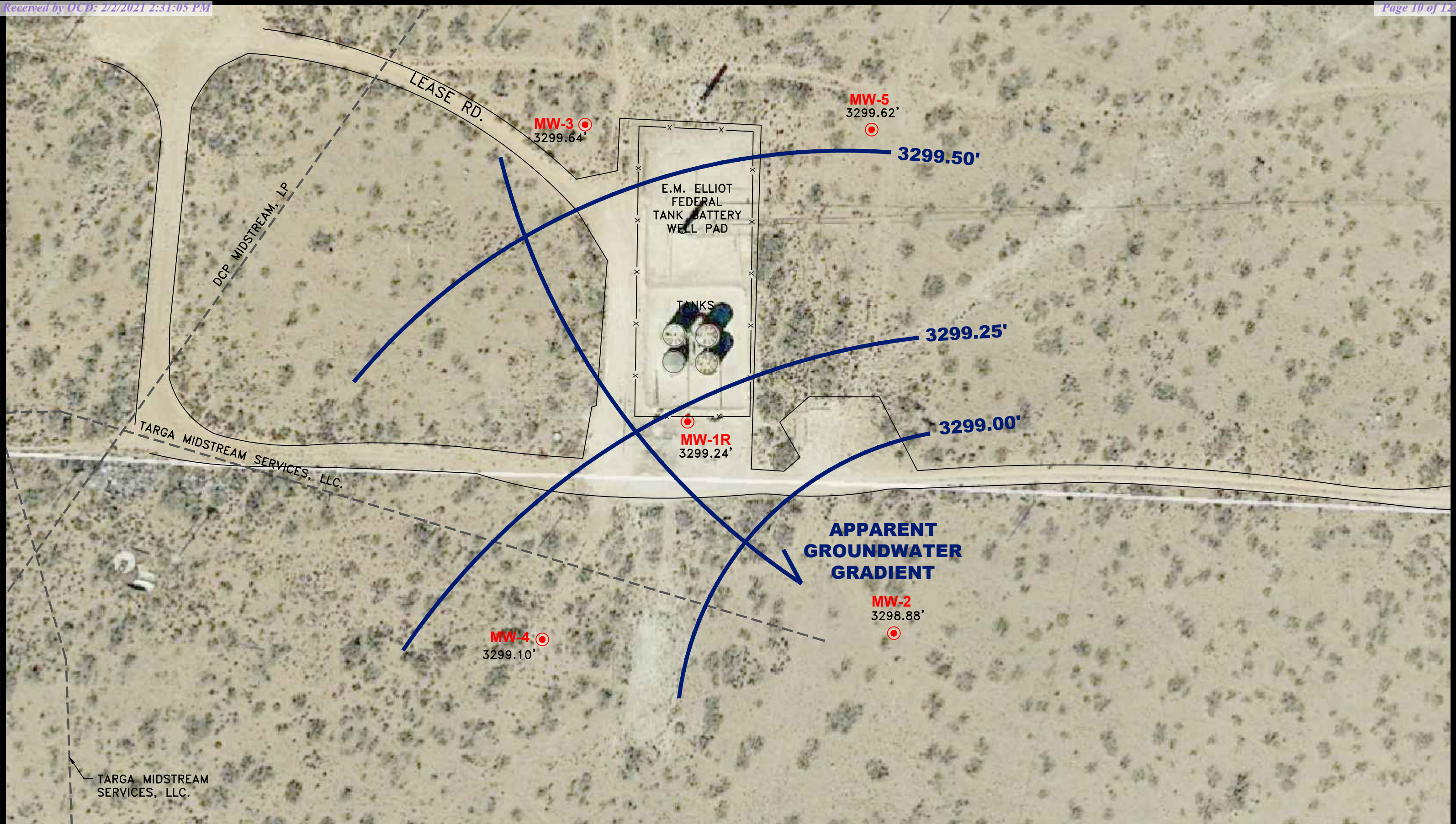




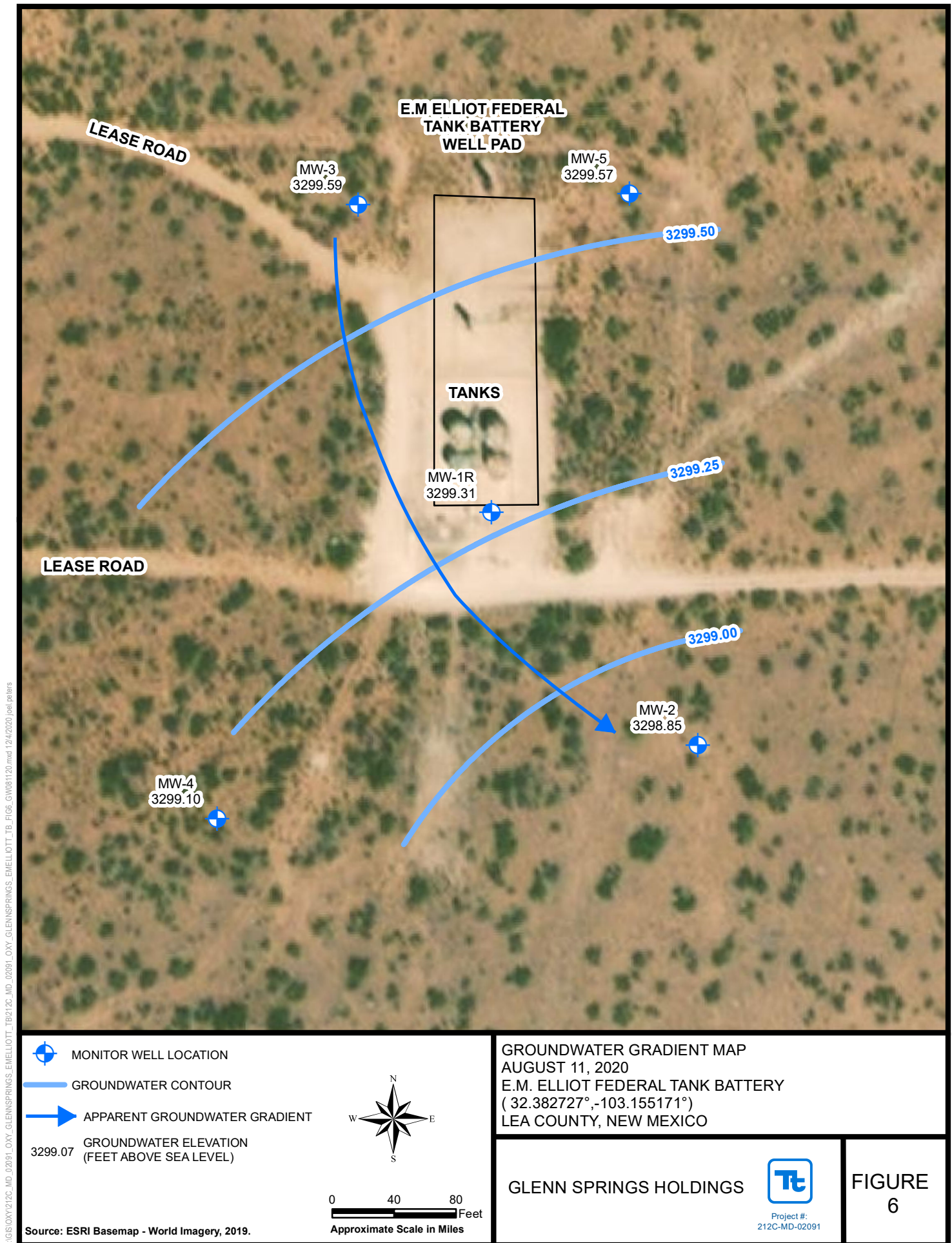
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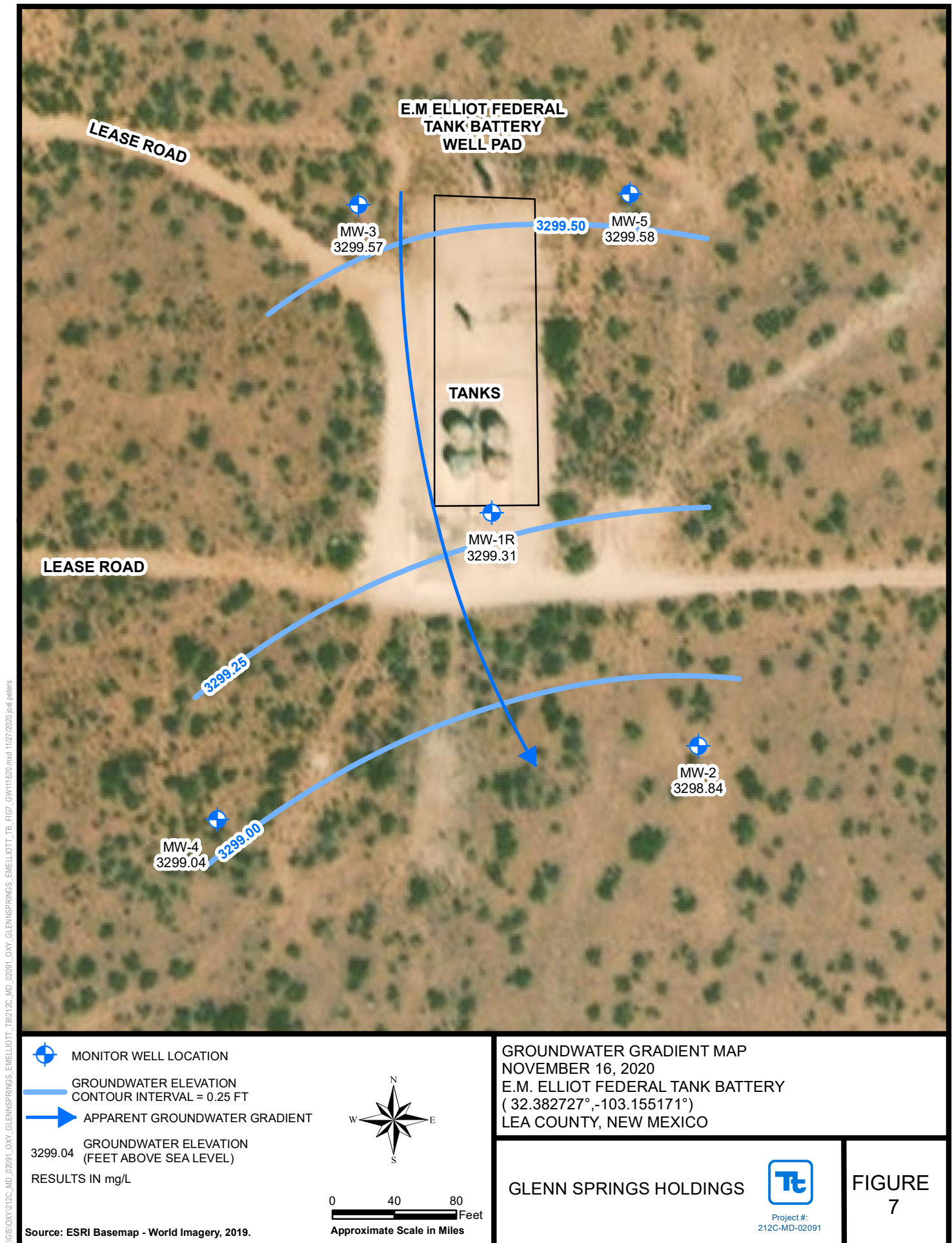


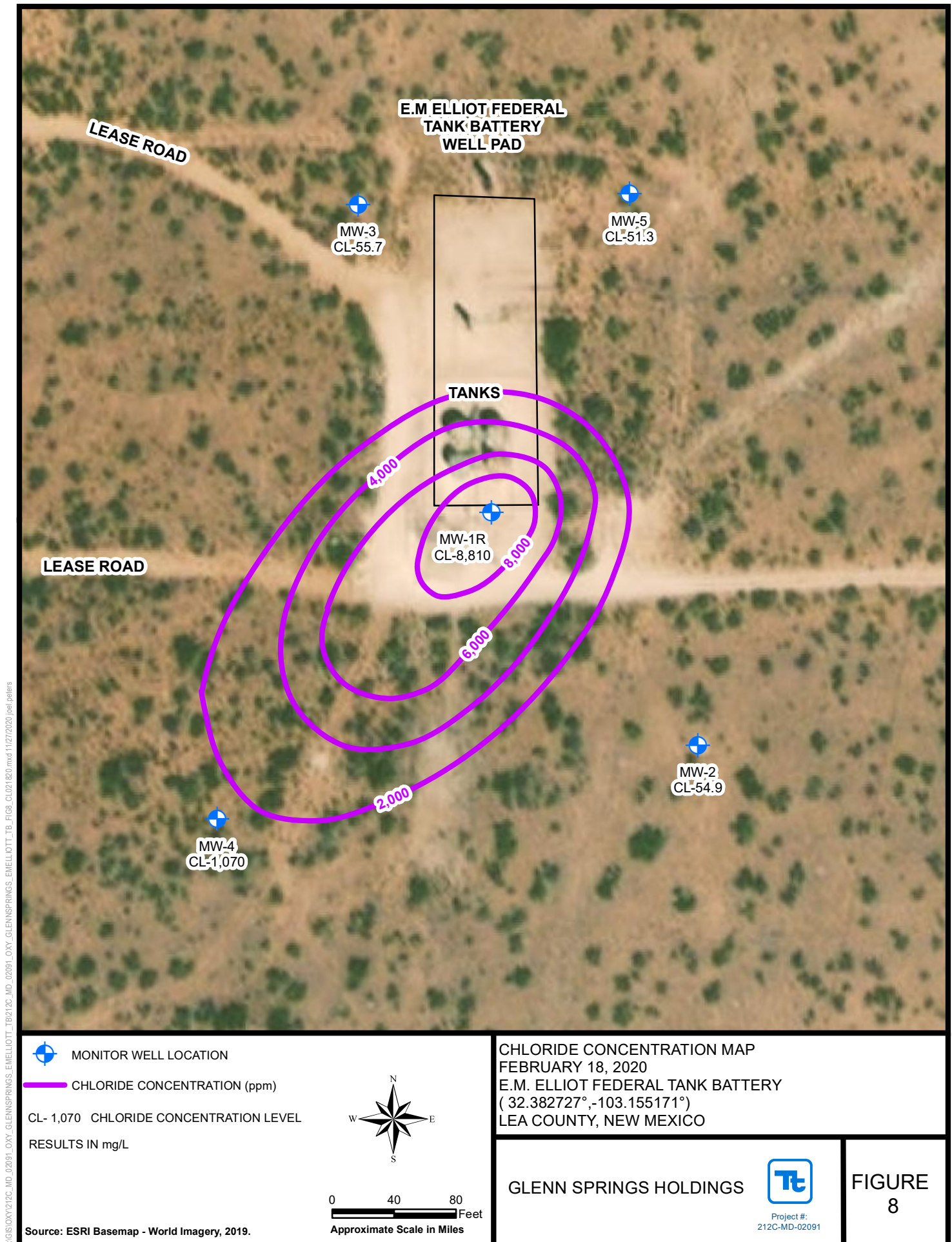
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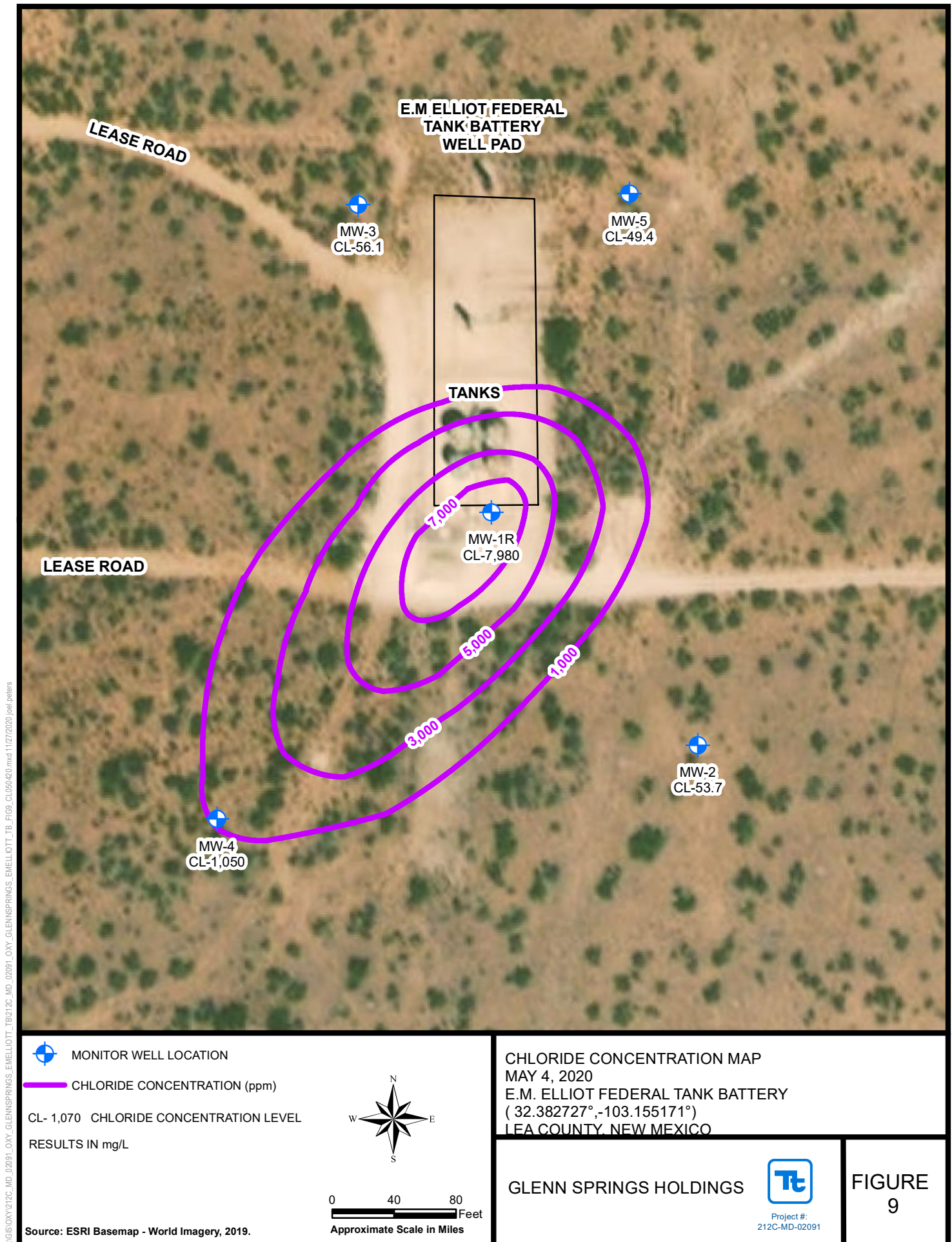


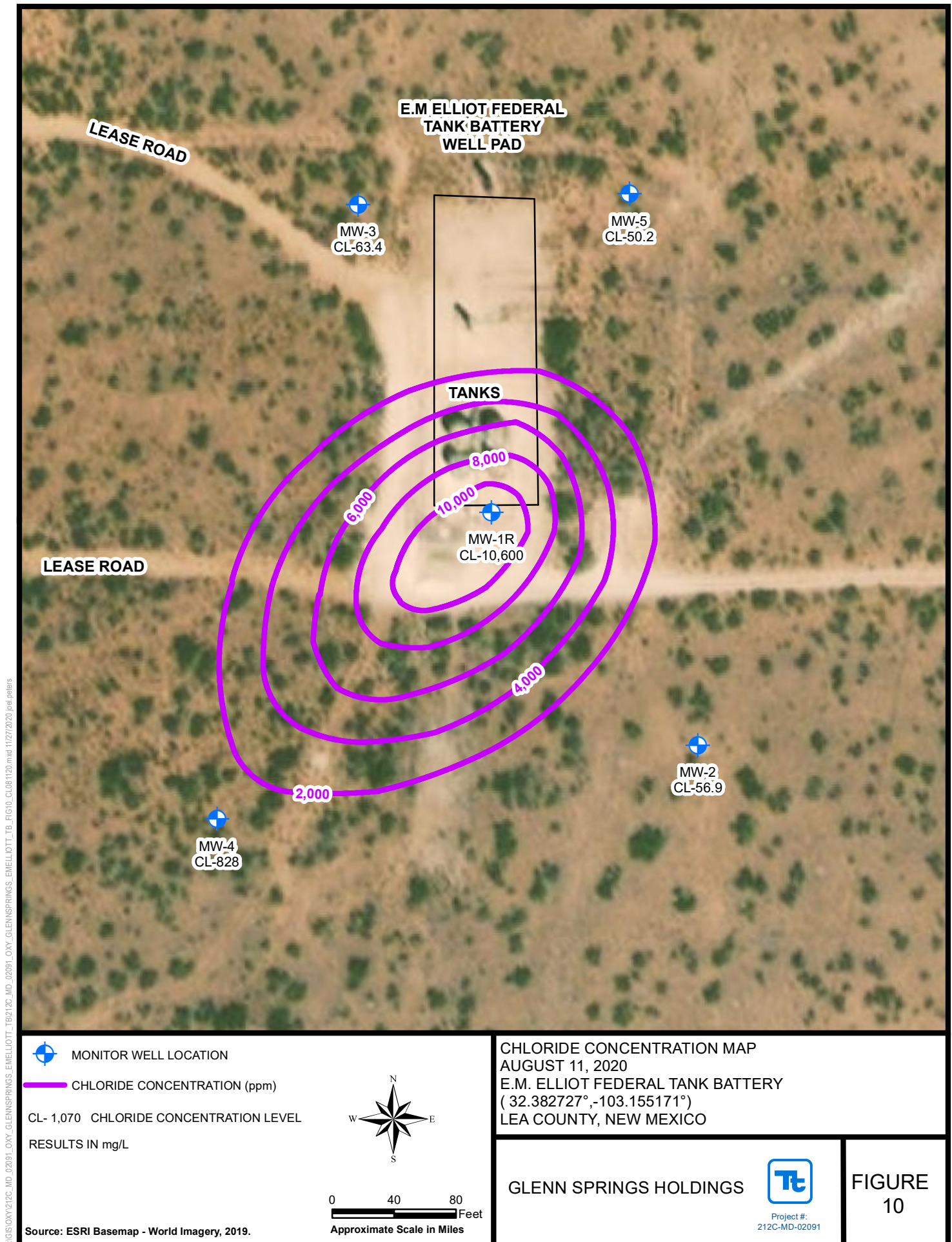
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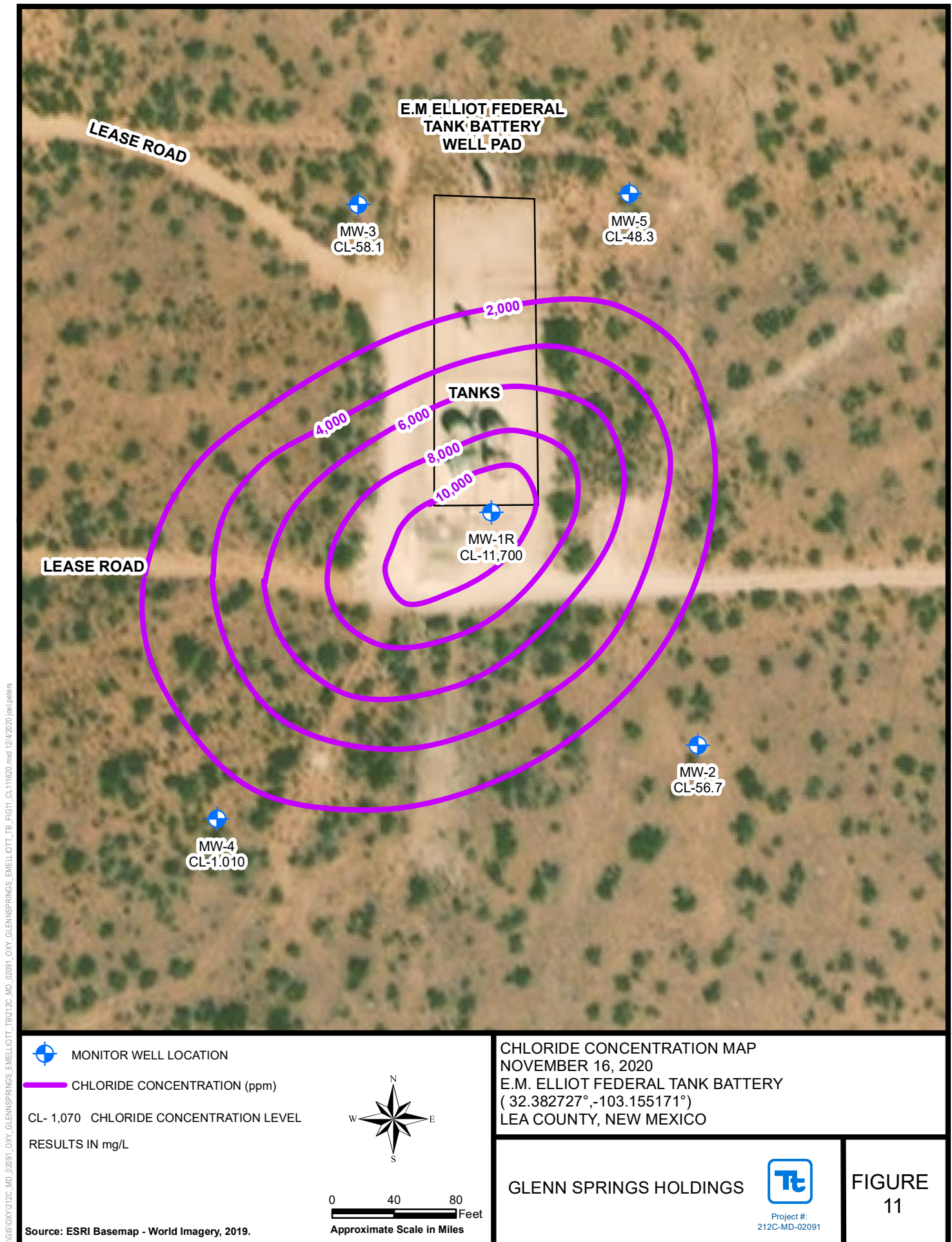












Tables

TABLE 1
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Groundwater Elevations and PSH Thickness
Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-1	10/23/08	3,378.91	85.60	-	80.88	-	3,298.03
	12/10/08	-	85.60	-	80.85	-	3,298.06
	03/11/09	-	85.60	-	80.85	-	3,298.06
	06/22/09	-	85.60	-	80.84	-	3,298.07
	09/15/09	-	85.66	-	80.84	-	3,298.03
	12/09/09	-	85.60	-	80.88	-	3,298.03
	03/10/10	-	85.60	-	80.85	-	3,298.06
	06/07/10	-	85.60	-	80.77	-	3,298.14
	09/13/10	-	85.60	-	81.64	-	3,297.27
	12/13/10	-	85.60	-	81.78	-	3,297.13
	03/10/11	-	85.60	-	81.82	-	3,297.09
	06/13/11	-	85.60	-	80.77	-	3,298.14
	09/20/11	-	85.60	-	80.82	-	3,298.09
	12/12/11	-	85.60	-	80.95	-	3,297.96
	04/05/12	-	85.60	-	80.84	-	3,298.07
	06/19/12	-	85.60	-	80.83	-	3,298.08
	09/24/12	-	85.60	-	80.91	-	3,298.00
	12/14/12	-	85.60	-	80.82	-	3,298.09
	03/27/13	-	86.80	-	80.83	-	3,298.08
	06/07/13	-	-	-	80.82	-	3,298.09
	09/19/13	-	-	-	80.81	-	3,298.10
	12/26/13	-	86.83	-	80.86	-	3,298.05
	03/27/14	-	85.60	-	80.93	-	3,297.98
	06/17/14	-	85.60	-	80.83	-	3,298.08
	09/26/14	-	85.60	-	80.88	-	3,298.03
	12/15/14	-	85.59	-	80.99	-	3,297.92
	03/24/15	-	85.66	-	80.91	-	3,298.00
	06/18/15	-	85.66	-	80.96	-	3,297.95
	08/06/15	-	-	-	80.90	-	3,298.01
	08/12/15	-	-	-	80.87	-	3,298.04
	08/18/15	-	-	-	80.84	-	3,298.07
	09/08/15	-	85.66	-	80.82	-	3,298.09
	12/18/15	-	85.72	-	80.86	-	3,298.05
	03/14/16	-	-	-	80.82	-	3,298.09
	06/28/16	-	85.66	-	80.83	-	3,298.08
	09/12/16	Well Plugged					
MW-1R	09/09/16	3,380.41	-	-	79.32	-	3,301.09
	09/15/16	-	-	-	82.04	-	3,298.37
	09/29/16	-	92.40	-	81.34	-	3,299.07
	10/12/16	-	-	-	81.30	-	3,299.11
	12/06/16	-	-	-	81.32	-	3,299.09
	03/01/17	-	92.40	-	81.39	-	3,299.02
	08/29/17	-	-	-	81.29	-	3,299.12
	11/20/17	-	-	-	81.66	-	3,298.75
	02/20/18	-	90.38	-	81.28	-	3,299.13

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MW-1R Cont.	05/24/18	-	-	-	81.12	-	3,299.29
	08/24/18	-	-	-	81.70	-	3,298.71
	11/15/18	-	90.45	-	81.65	-	3,298.76
	02/08/19	-	90.42	-	81.15	-	3,299.26
	08/07/19	-	90.40	-	81.3	-	3,299.11
	02/18/20	-	90.30	-	81.41	-	3,299.00
	05/04/20	-	90.30	-	81.17	-	3,299.24
	08/11/20	-	90.30	-	81.10	-	3,299.31
	11/16/20	-	90.30	-	81.10	-	3,299.31
MW-2	09/20/11	3,378.00	102.00	-	82.97	-	3,295.03
	12/12/11	-	102.00	-	80.44	-	3,297.56
	04/05/12	-	102.00	-	80.27	-	3,297.73
	06/19/12	-	102.00	-	80.32	-	3,297.68
	09/24/12	-	102.00	-	80.31	-	3,297.69
	12/14/12	-	102.00	-	80.34	-	3,297.66
	03/27/13	-	98.35	-	80.33	-	3,297.67
	06/07/13	-	-	-	80.35	-	3,297.65
	09/19/13	-	-	-	80.34	-	3,297.66
	12/26/13	-	-	-	80.35	-	3,297.65
	03/27/14	-	97.16	-	80.39	-	3,297.61
	06/17/14	-	97.16	-	80.29	-	3,297.71
	09/30/14	-	97.16	-	80.37	-	3,297.63
	12/15/14	-	97.16	-	80.44	-	3,297.56
	03/24/15	-	97.05	-	80.37	-	3,297.63
	06/18/15	-	97.16	-	80.36	-	3,297.64
	08/06/15	-	-	-	80.37	-	3,297.63
	09/08/15	-	97.16	-	80.33	-	3,297.67
	12/18/15	-	97.12	-	80.35	-	3,297.65
	03/14/16	-	-	-	80.30	-	3,297.70
	06/28/16	-	97.16	-	80.32	-	3,297.68
	09/09/16	3,378.98	-	-	80.27	-	3,298.71
	09/29/16	-	97.16	-	80.34	-	3,298.64
	10/12/16	-	-	-	80.30	-	3,298.68
	12/06/16	-	-	-	80.34	-	3,298.64
	03/01/17	-	98.35	-	80.32	-	3,298.66
	08/29/17	-	98.35	-	80.29	-	3,298.69
	11/20/17	-	-	-	80.43	-	3,298.55
	02/20/18	-	97.10	-	80.29	-	3,298.69
	05/24/18	-	-	-	80.17	-	3,298.81
	08/24/18	-	-	-	80.42	-	3,298.56
	11/15/18	-	97.19	-	80.38	-	3,298.60
	02/08/19	-	96.83	-	80.20	-	3,298.78
	08/07/19	-	97.25	-	80.35	-	3,298.63
	02/18/20	-	96.95	-	80.17	-	3,298.81
	05/04/20	-	96.95	-	80.10	-	3,298.88
	08/11/20	-	96.90	-	80.13	-	3,298.85
	11/16/20	-	96.90	-	80.14	-	3,298.84

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	12/12/11	-	99.00	-	83.11	-	3,298.29
	04/05/12	-	99.00	-	82.98	-	3,298.42
	06/19/12	-	99.00	-	82.99	-	3,298.41
	09/24/12	-	99.00	-	82.99	-	3,298.41
	12/14/12	-	99.00	-	82.99	-	3,298.41
	03/27/13	-	99.00	-	83.04	-	3,298.36
	06/07/13	-	-	-	83.05	-	3,298.35
	09/19/13	-	-	-	83.02	-	3,298.38
	12/26/13	-	-	-	83.09	-	3,298.31
	03/27/14	-	100.95	-	83.12	-	3,298.28
	06/17/14	-	100.95	-	83.06	-	3,298.34
	09/30/14	-	100.95	-	83.09	-	3,298.31
	12/15/14	-	100.94	-	83.18	-	3,298.22
	03/24/15	-	100.94	-	83.08	-	3,298.32
	06/18/15	-	100.94	-	83.05	-	3,298.35
	08/06/15	-	-	-	83.04	-	3,298.36
	09/08/15	-	100.94	-	83.02	-	3,298.38
	12/18/15	-	104.94	-	83.04	-	3,298.36
	03/14/16	-	-	-	82.99	-	3,298.41
	06/28/16	-	100.97	-	82.98	-	3,298.42
	09/09/16	3,382.36	-	-	83.00	-	3,299.36
	09/29/16	-	100.97	-	83.01	-	3,299.35
	10/12/16	-	-	-	82.98	-	3,299.38
	12/06/16	-	-	-	82.99	-	3,299.37
	03/01/17	-	-	-	83.00	-	3,299.36
	08/29/17	-	-	-	82.98	-	3,299.38
	11/20/17	-	-	-	83.05	-	3,299.31
	02/20/18	-	100.96	-	82.93	-	3,299.43
	05/24/18	-	-	-	82.83	-	3,299.53
	08/24/18	-	-	-	83.02	-	3,299.34
	11/15/18	-	101.09	-	82.96	-	3,299.40
	02/08/19	-	100.94	-	82.88	-	3,299.48
	08/07/19	-	101.15	-	82.97	-	3,299.39
	02/18/20	-	100.90	-	82.80	-	3,299.56
	05/04/20	-	100.90	-	82.72	-	3,299.64
	08/11/20	-	100.70	-	82.77	-	3,299.59
	11/16/20	-	101.71	-	82.79	-	3,299.57
MW-4	09/08/16	3,377.80	-	-	78.90	-	3,298.90
	09/09/16	-	-	-	78.96	-	3,298.84
	09/15/16	-	-	-	78.95	-	3,298.85
	09/29/16	-	94.40	-	78.95	-	3,298.85
	10/12/16	-	-	-	78.92	-	3,298.88
	12/06/16	-	-	-	78.91	-	3,298.89
	03/01/17	-	93.35	-	78.89	-	3,298.91
	08/29/17	-	93.35	-	78.91	-	3,298.89

TABLE 1
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Groundwater Elevations and PSH Thickness
Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-4 Cont.	11/20/17	-	-	-	78.96	-	3,298.84
	02/20/18	-	93.72	-	78.82	-	3,298.98
	05/24/18	-	-	-	78.75	-	3,299.05
	08/24/18	-	-	-	78.98	-	3,298.82
	11/15/18	-	93.72	-	78.87	-	3,298.93
	02/08/19	-	93.55	-	78.72	-	3,299.08
	08/07/19	-	93.80	-	78.93	-	3,298.87
	02/18/20	-	94.60	-	78.70	-	3,299.10
	05/04/20	-	94.60	-	78.70	-	3,299.10
	08/11/20	-	93.40	-	78.70	-	3,299.10
	11/16/20	-	93.40	-	78.76	-	3,299.04
MW-5	09/08/16	3,384.53	-	-	85.15	-	3,299.38
	09/09/16	-	-	-	85.19	-	3,299.34
	09/15/16	-	-	-	85.15	-	3,299.38
	09/29/16	-	101.94	-	85.16	-	3,299.37
	10/12/16	-	-	-	85.14	-	3,299.39
	12/06/16	-	-	-	85.18	-	3,299.35
	03/01/17	-	101.49	-	85.20	-	3,299.33
	08/29/17	-	101.49	-	85.16	-	3,299.37
	11/20/17	-	-	-	85.24	-	3,299.29
	02/20/18	-	101.95	-	85.12	-	3,299.41
	05/24/18	-	-	-	85.03	-	3,299.50
	08/24/18	-	-	-	85.25	-	3,299.28
	11/15/18	-	-	-	85.19	-	3,299.34
	02/08/19	-	101.95	-	85.03	-	3,299.50
	08/07/19	-	101.20	-	85.25	-	3,299.28
	02/18/20	-	100.77	-	85.00	-	3,299.53
	05/04/20	-	100.77	-	84.91	-	3,299.62
	08/11/20	-	100.74	-	84.96	-	3,299.57
	11/16/20	-	100.80	-	84.95	-	3,299.58

(-) No data (TOC) Top of casing

9/7/16 MW-4 and MW-5 drilled

9/8/16 MW-1R drilled

9/12/16 MW-1 plugged

10/12/16 John West Survey Company surveyed all five monitor wells on Site

TABLE 2
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/l)	Xylene (mg/L)	Total BTEX (mg/l)	Chloride (mg/L)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration			0.010 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L		250.0 mg/L*
MW-1 Dup	09/25/06	-	0.0013	<0.001	<0.001	0.0065	0.0078	8,260
	05/15/07	-	<0.001	<0.001	<0.001	0.0015	0.0015	2,020
	10/23/08	-	<0.005	<0.005	<0.005	<0.005	<0.005	8,040
	12/11/08	-	<0.005	<0.005	<0.005	<0.015	<0.015	9,590
	03/11/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	9,670
	03/11/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	8,950
	06/22/09	-	0.00049	<0.001	<0.001	<0.003	<0.003	9,600
	09/15/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	9,500
	12/09/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	9,880
	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	8,630
	06/07/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	9,650
	09/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	9,520
	12/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	9,580
	03/10/11	-	<0.001	<0.001	<0.001	<0.003	<0.003	16,800
	06/13/11	-	0.00024 J	<0.00030	<0.00020	<0.00023	0.00024 J	11,000
	09/20/11	-	0.00027 J	<0.00030	<0.00020	<0.00023	0.00027 J	4,400
	12/13/11	-	0.00025 J	<0.00030	<0.00020	<0.00023	0.00025 J	9,600
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	10,300
	06/19/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	8,030
	09/24/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	11,100
	11/27/12	-	-	-	-	-	-	9,110
	11/27/12	-	-	-	-	-	-	8,310
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	7,230
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	8,820
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	9,320
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	9,620
	12/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	8,380
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	7,630

112MC06821
212C-MD-02091

TABLE 2
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/l)	Xylene (mg/L)	Total BTEX (mg/l)	Chloride (mg/L)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration			0.010 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L		250.0 mg/L*
MW-1 Cont.	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	11,100
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	13,400
	12/15/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	10,700
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	11,000
	06/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	11,000
	09/08/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	11,500
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	11,500
	03/15/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	10,000
Dup	03/15/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	9,590
	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	9,270
Dup	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	10,700
	09/12/16		Plugged					
MW-1R	09/29/16	-	<0.005	0.00095 J	<0.005	<0.015	0.00095 J	7,210
Dup	09/29/16	-	<0.005	0.0010 J	<0.005	<0.015	0.0010 J	7,040
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	8,810
Dup	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	9,380
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	8,740
Dup	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	9,250
	06/08/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	8,710
Dup	06/08/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	8,690
	08/30/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	8,600
Dup	08/30/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	8,860
	11/20/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	12,500
Dup	11/20/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	9,330
	02/21/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	9,380
Dup	02/21/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	9,340
	05/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	8,490
Dup	05/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	9,810

112MC06821
212C-MD-02091

TABLE 2
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/l)	Xylene (mg/L)	Total BTEX (mg/l)	Chloride (mg/L)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration			0.010 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L		250.0 mg/L*
MW-1R Cont.	08/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	9,160
Dup	08/24/18	-	<0.0050	<0.0050	<0.0050	0.00081 J	0.00081 J	9,300
	11/15/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	7,850
	02/08/19	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	608
	08/07/19	-	<0.0060	<0.0050	<0.0050	<0.0050	<0.0050	8,840
	02/18/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	8,810
	05/04/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	7,980
	08/11/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	10,600
	11/16/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	11,700
MW-2	09/20/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	51
	12/13/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	160
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	62.2
	06/19/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	60.7
	09/24/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	63.3
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	50.7
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	109
	06/07/13	-	NA	-	-	-	-	NA
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	59.9
	12/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	53.5
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	63.1
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	63.1
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	58.0
	12/15/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	54.4
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	55.0
	06/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	55.0
	09/08/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	54.2
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	53.6
	03/15/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	57.6
	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	53.4

112MC06821
212C-MD-02091

TABLE 2
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/l)	Xylene (mg/L)	Total BTEX (mg/l)	Chloride (mg/L)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration			0.010 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L		250.0 mg/L*
MW-2 Cont.	09/29/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	51.2
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	54.3
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	53.2
	06/08/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	49.4
	08/30/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	50.4
	11/20/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	57.5
	02/21/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	56.0
	05/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	58.6
	08/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	54.7
	11/15/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	55.3
	02/08/19	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	53.4
	08/07/19	-	<0.0060	<0.0050	<0.0050	<0.0050	<0.0050	56.6
	02/18/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	54.9
	05/04/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	53.7
	08/11/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	56.9
	11/16/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	56.7
MW-3	09/20/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	270
	12/13/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	52
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	51.7
	06/19/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	52.6
	09/24/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	54.9
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	46.0
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	97.5
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	47.0
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	54.3
	12/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	51.3
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	57.0
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	60.2
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	53.2

112MC06821
212C-MD-02091

TABLE 2
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/l)	Xylene (mg/L)	Total BTEX (mg/l)	Chloride (mg/L)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration			0.010 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L		250.0 mg/L*
MW-3 Cont.	12/15/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	51.1
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	56.9
	06/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	52.4
	09/08/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	51.8
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	51.0
	03/15/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	55.9
	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	53.4
	09/29/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	49.0
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	54.6
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	55.1
	06/08/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	48.4
	08/30/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	49.3
	11/20/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	55.5
	02/21/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	52.7
	05/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	55.9
	08/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	56.7
	11/15/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	56.4
	02/08/19	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	52.8
	08/07/19	-	<0.0060	<0.0050	<0.0050	<0.0050	<0.0050	55.9
	02/18/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	55.7
	05/04/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	56.1
	08/11/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	63.4
	11/16/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	58.1
MW-4	09/29/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	696
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	1,010
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	1,080
	06/08/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	923
	08/30/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	905
	11/20/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1,270

112MC06821
212C-MD-02091

TABLE 2
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/l)	Xylene (mg/L)	Total BTEX (mg/l)	Chloride (mg/L)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration			0.010 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L		250.0 mg/L*
MW-4 Cont.	02/21/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1,110
	05/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	985
	08/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	877
	11/15/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1,090
Dup	11/15/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1,100
	02/08/19	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1,010
Dup	02/08/19	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1,020
	08/07/19	-	<0.0060	<0.0050	<0.0050	<0.0050	<0.0050	933
Dup	08/07/19	-	<0.0060	<0.0050	<0.0050	<0.0050	<0.0050	931
	02/18/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	1,070
Dup	02/18/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	1,070
	05/04/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	1,040
Dup	05/04/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	1,050
	08/11/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	818
Dup	08/11/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	828
	11/16/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	999
Dup	11/16/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	1,010
MW-5	09/29/16	-	<0.005	0.0011 J	<0.005	<0.015	0.0011 J	61.8
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	51.6
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	51.2
	06/08/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	45.8
	08/30/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	47.2
	11/20/17	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	52.7
	02/21/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	51.3
	05/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	54.1
	08/24/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	51.0
	11/15/18	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	52.2
	02/08/19	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	48.9
	08/07/19	-	<0.0060	<0.0050	<0.0050	<0.0050	<0.0050	50.4
	02/18/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	51.3

112MC06821
212C-MD-02091

TABLE 2
Glenn Springs Holdings, Inc.
E. M. Elliott Tank Battery
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/l)	Xylene (mg/L)	Total BTEX (mg/l)	Chloride (mg/L)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration			0.010 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L		250.0 mg/L*
MW-5 Cont.	05/04/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	49.4
	08/11/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	50.2
	11/16/20	-	<0.00060	<0.00050	<0.00050	<0.00050	<0.00060	48.3

(-) Not Analyzed

NA - Not Analyzed, sample vials were broken during delivery to the laboratory

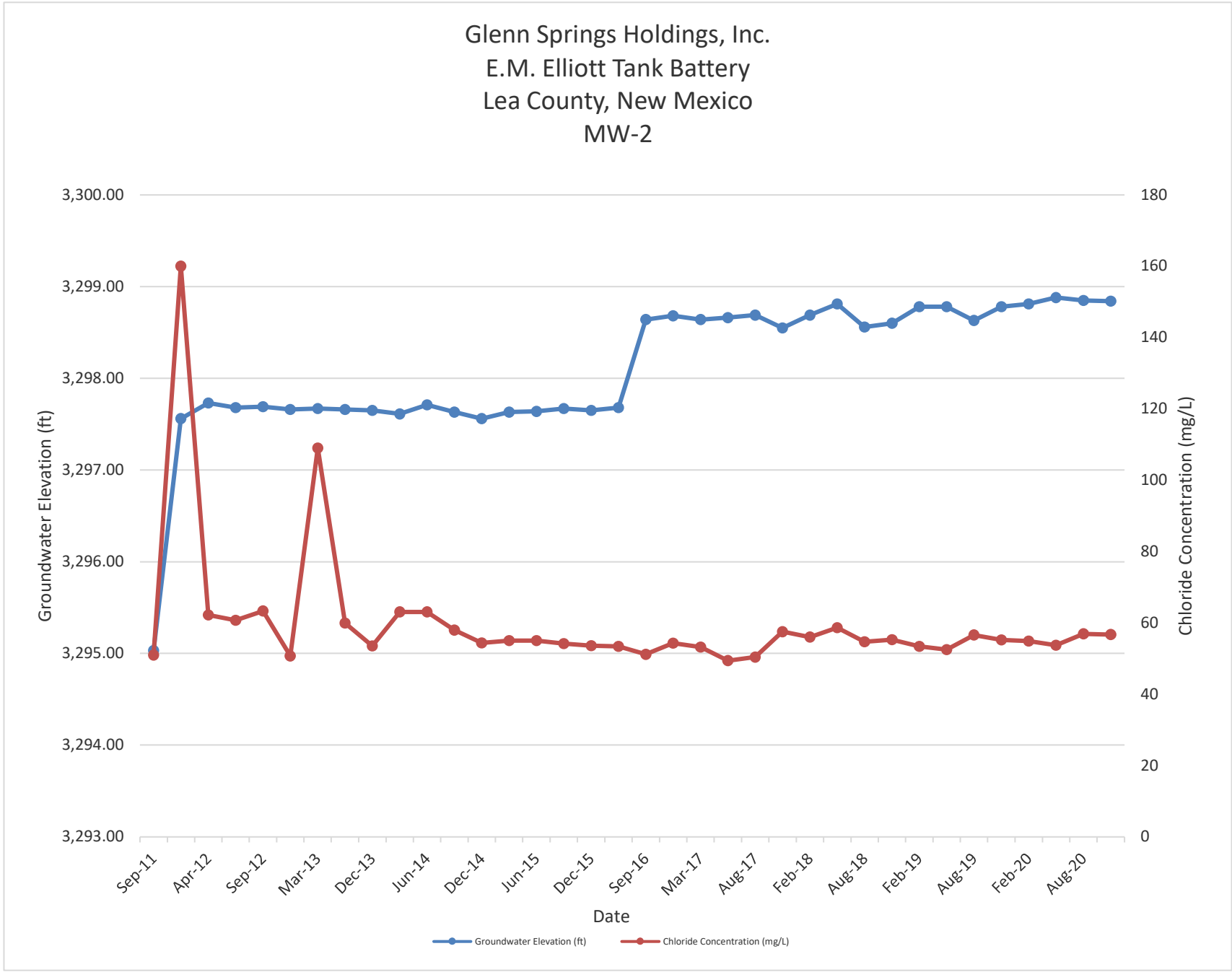
* - Other Standard for Domestic Water Supply

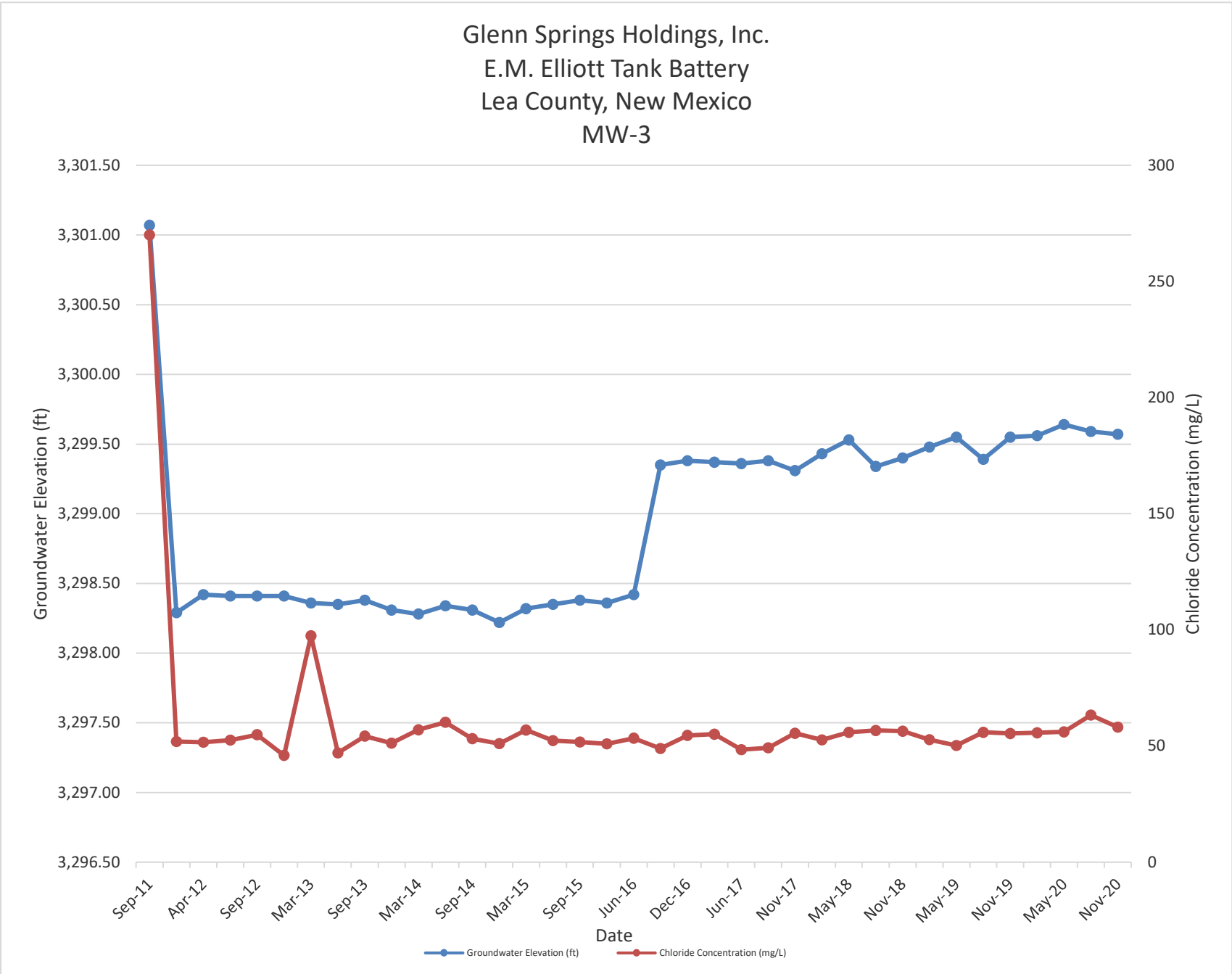
(J) Analyte detected below quantitation limit

MW-4 and MW-5 drilled on 9/7/16, MW-1R drilled on 09/08/16

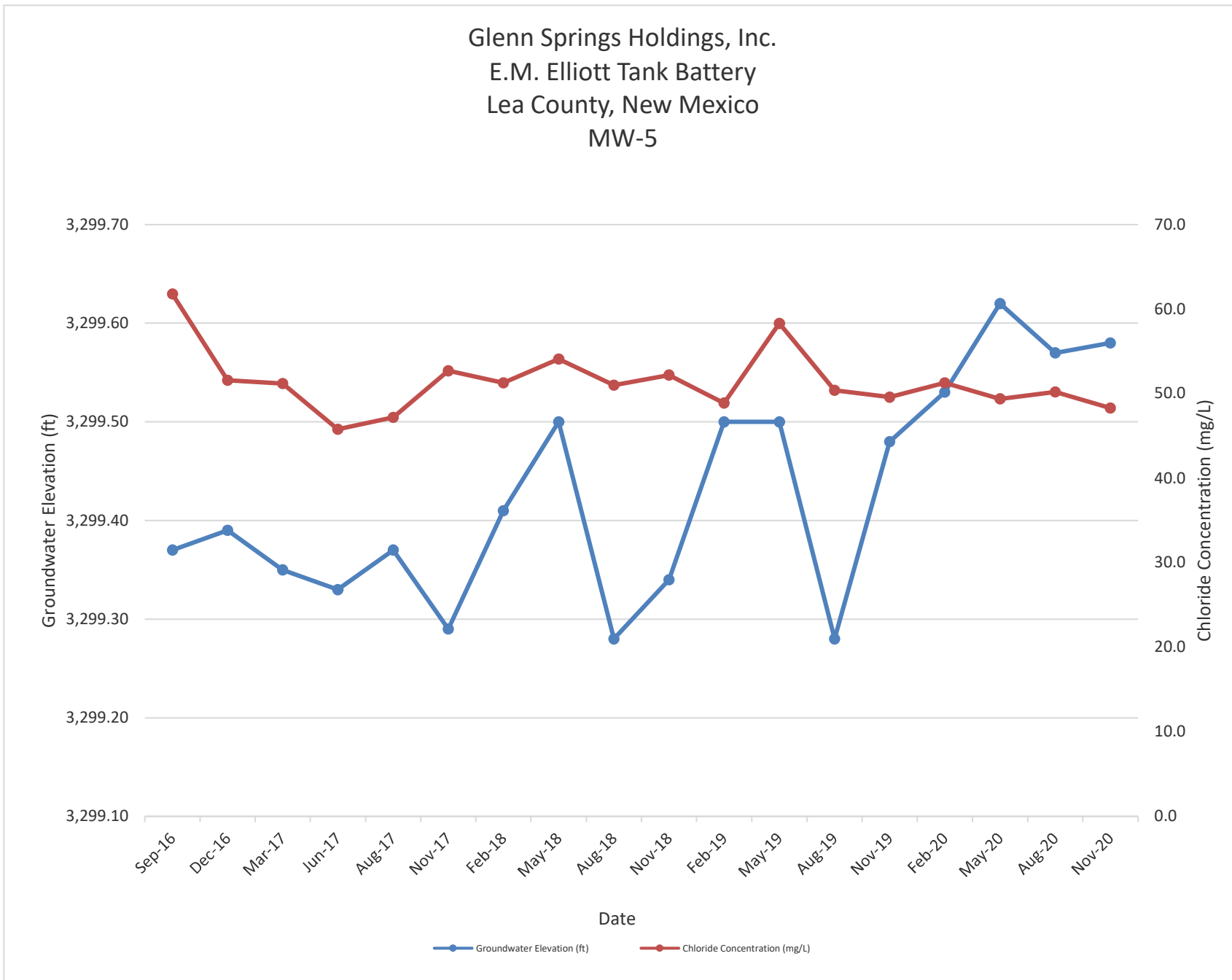
Appendix A – Graphs











Appendix B – Lab Reports



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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February 29, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20020929**

Laboratory Results for: **55626DM GSHI PXP Elliot E.M. Federal TB**

Dear Mike,

ALS Environmental received 7 sample(s) on Feb 21, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
Work Order: HS20020929

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20020929-01	MW-1R	Groundwater		18-Feb-2020 12:55	21-Feb-2020 08:35	☐
HS20020929-02	MW-2	Groundwater		18-Feb-2020 12:35	21-Feb-2020 08:35	☐
HS20020929-03	MW-3	Groundwater		18-Feb-2020 13:05	21-Feb-2020 08:35	☐
HS20020929-04	MW-4	Groundwater		18-Feb-2020 12:15	21-Feb-2020 08:35	☐
HS20020929-05	MW-5	Groundwater		18-Feb-2020 12:10	21-Feb-2020 08:35	☐
HS20020929-06	DUP	Groundwater		18-Feb-2020 00:00	21-Feb-2020 08:35	☐
HS20020929-07	Trip Blank	Groundwater	CG 011520 -375	18-Feb-2020 00:00	21-Feb-2020 08:35	☐

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
Work Order: HS20020929

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R356810,R356820

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R357301

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-1R
 Collection Date: 18-Feb-2020 12:55

ANALYTICAL REPORT

WorkOrder:HS20020929
 Lab ID:HS20020929-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	22-Feb-2020 13:14
Ethylbenzene	U		0.00050	0.0050	mg/L	1	22-Feb-2020 13:14
Toluene	U		0.00050	0.0050	mg/L	1	22-Feb-2020 13:14
Xylenes, Total	U		0.00050	0.0050	mg/L	1	22-Feb-2020 13:14
Surr: 1,2-Dichloroethane-d4	110			70-126	%REC	1	22-Feb-2020 13:14
Surr: 4-Bromofluorobenzene	97.0			82-124	%REC	1	22-Feb-2020 13:14
Surr: Dibromofluoromethane	105			77-123	%REC	1	22-Feb-2020 13:14
Surr: Toluene-d8	102			82-127	%REC	1	22-Feb-2020 13:14
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	8,810		20.0	50.0	mg/L	100	28-Feb-2020 15:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-2
 Collection Date: 18-Feb-2020 12:35

ANALYTICAL REPORT

WorkOrder:HS20020929
 Lab ID:HS20020929-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	22-Feb-2020 13:39
Ethylbenzene	U		0.00050	0.0050	mg/L	1	22-Feb-2020 13:39
Toluene	U		0.00050	0.0050	mg/L	1	22-Feb-2020 13:39
Xylenes, Total	U		0.00050	0.0050	mg/L	1	22-Feb-2020 13:39
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	1	22-Feb-2020 13:39
Surr: 4-Bromofluorobenzene	94.5			82-124	%REC	1	22-Feb-2020 13:39
Surr: Dibromofluoromethane	105			77-123	%REC	1	22-Feb-2020 13:39
Surr: Toluene-d8	100			82-127	%REC	1	22-Feb-2020 13:39
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	54.9		0.200	0.500	mg/L	1	28-Feb-2020 15:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-3
 Collection Date: 18-Feb-2020 13:05

ANALYTICAL REPORT

WorkOrder:HS20020929
 Lab ID:HS20020929-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	23-Feb-2020 15:25
Ethylbenzene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 15:25
Toluene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 15:25
Xylenes, Total	U		0.00050	0.0050	mg/L	1	23-Feb-2020 15:25
Surr: 1,2-Dichloroethane-d4	93.8			70-126	%REC	1	23-Feb-2020 15:25
Surr: 4-Bromofluorobenzene	102			82-124	%REC	1	23-Feb-2020 15:25
Surr: Dibromofluoromethane	92.1			77-123	%REC	1	23-Feb-2020 15:25
Surr: Toluene-d8	110			82-127	%REC	1	23-Feb-2020 15:25
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	55.7		0.200	0.500	mg/L	1	28-Feb-2020 15:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-4
 Collection Date: 18-Feb-2020 12:15

ANALYTICAL REPORT

WorkOrder:HS20020929
 Lab ID:HS20020929-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	23-Feb-2020 19:25
Ethylbenzene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 19:25
Toluene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 19:25
Xylenes, Total	U		0.00050	0.0050	mg/L	1	23-Feb-2020 19:25
Surr: 1,2-Dichloroethane-d4	94.2			70-126	%REC	1	23-Feb-2020 19:25
Surr: 4-Bromofluorobenzene	101			82-124	%REC	1	23-Feb-2020 19:25
Surr: Dibromofluoromethane	93.5			77-123	%REC	1	23-Feb-2020 19:25
Surr: Toluene-d8	109			82-127	%REC	1	23-Feb-2020 19:25
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	1,070		10.0	25.0	mg/L	50	28-Feb-2020 16:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-5
 Collection Date: 18-Feb-2020 12:10

ANALYTICAL REPORT

WorkOrder:HS20020929
 Lab ID:HS20020929-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	23-Feb-2020 21:01
Ethylbenzene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:01
Toluene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:01
Xylenes, Total	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:01
Surr: 1,2-Dichloroethane-d4	95.2			70-126	%REC	1	23-Feb-2020 21:01
Surr: 4-Bromofluorobenzene	102			82-124	%REC	1	23-Feb-2020 21:01
Surr: Dibromofluoromethane	93.5			77-123	%REC	1	23-Feb-2020 21:01
Surr: Toluene-d8	110			82-127	%REC	1	23-Feb-2020 21:01
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	51.3		0.200	0.500	mg/L	1	28-Feb-2020 17:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: DUP
 Collection Date: 18-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20020929
 Lab ID:HS20020929-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	23-Feb-2020 21:25
Ethylbenzene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:25
Toluene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:25
Xylenes, Total	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:25
Surr: 1,2-Dichloroethane-d4	95.4			70-126	%REC	1	23-Feb-2020 21:25
Surr: 4-Bromofluorobenzene	102			82-124	%REC	1	23-Feb-2020 21:25
Surr: Dibromofluoromethane	94.2			77-123	%REC	1	23-Feb-2020 21:25
Surr: Toluene-d8	109			82-127	%REC	1	23-Feb-2020 21:25
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	1,070		10.0	25.0	mg/L	50	28-Feb-2020 16:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: Trip Blank
 Collection Date: 18-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20020929
 Lab ID:HS20020929-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	23-Feb-2020 21:49
Ethylbenzene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:49
Toluene	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:49
Xylenes, Total	U		0.00050	0.0050	mg/L	1	23-Feb-2020 21:49
Surr: 1,2-Dichloroethane-d4	94.9			70-126	%REC	1	23-Feb-2020 21:49
Surr: 4-Bromofluorobenzene	103			82-124	%REC	1	23-Feb-2020 21:49
Surr: Dibromofluoromethane	94.5			77-123	%REC	1	23-Feb-2020 21:49
Surr: Toluene-d8	109			82-127	%REC	1	23-Feb-2020 21:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20020929

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R356810 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20020929-01	MW-1R	18 Feb 2020 12:55			22 Feb 2020 13:14	1
HS20020929-02	MW-2	18 Feb 2020 12:35			22 Feb 2020 13:39	1
Batch ID: R356820 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20020929-03	MW-3	18 Feb 2020 13:05			23 Feb 2020 15:25	1
HS20020929-04	MW-4	18 Feb 2020 12:15			23 Feb 2020 19:25	1
HS20020929-05	MW-5	18 Feb 2020 12:10			23 Feb 2020 21:01	1
HS20020929-06	DUP	18 Feb 2020 00:00			23 Feb 2020 21:25	1
HS20020929-07	Trip Blank	18 Feb 2020 00:00			23 Feb 2020 21:49	1
Batch ID: R357301 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20020929-01	MW-1R	18 Feb 2020 12:55			28 Feb 2020 15:15	100
HS20020929-02	MW-2	18 Feb 2020 12:35			28 Feb 2020 15:33	1
HS20020929-03	MW-3	18 Feb 2020 13:05			28 Feb 2020 15:51	1
HS20020929-04	MW-4	18 Feb 2020 12:15			28 Feb 2020 16:09	50
HS20020929-05	MW-5	18 Feb 2020 12:10			28 Feb 2020 17:40	1
HS20020929-06	DUP	18 Feb 2020 00:00			28 Feb 2020 16:27	50

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20020929

QC BATCH REPORT

Batch ID: R356810 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200221	Units: ug/L		Analysis Date: 22-Feb-2020 04:19					
Client ID:	Run ID: VOA9_356810	SeqNo: 5483479		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	49.33	0	50	0	98.7	70 - 130			
Surr: 4-Bromofluorobenzene	47.33	0	50	0	94.7	82 - 115			
Surr: Dibromofluoromethane	49.88	0	50	0	99.8	73 - 126			
Surr: Toluene-d8	49.61	0	50	0	99.2	81 - 120			

LCS	Sample ID: VLCSW-200221	Units: ug/L		Analysis Date: 22-Feb-2020 03:31					
Client ID:	Run ID: VOA9_356810	SeqNo: 5483478		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.44	5.0	20	0	92.2	74 - 120			
Ethylbenzene	18.43	5.0	20	0	92.2	77 - 117			
Toluene	18.61	5.0	20	0	93.0	77 - 118			
Xylenes, Total	58.3	5.0	60	0	97.2	75 - 122			
Surr: 1,2-Dichloroethane-d4	48.03	0	50	0	96.1	70 - 130			
Surr: 4-Bromofluorobenzene	50.15	0	50	0	100	82 - 115			
Surr: Dibromofluoromethane	49.82	0	50	0	99.6	73 - 126			
Surr: Toluene-d8	49.79	0	50	0	99.6	81 - 120			

MS	Sample ID: HS20020842-01MS	Units: ug/L		Analysis Date: 22-Feb-2020 05:08					
Client ID:	Run ID: VOA9_356810	SeqNo: 5483481		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.91	5.0	20	0	99.6	70 - 127			
Ethylbenzene	20.83	5.0	20	0	104	70 - 124			
Toluene	20.35	5.0	20	0	102	70 - 123			
Xylenes, Total	63.93	5.0	60	0	107	70 - 130			
Surr: 1,2-Dichloroethane-d4	47.63	0	50	0	95.3	70 - 126			
Surr: 4-Bromofluorobenzene	50.47	0	50	0	101	82 - 124			
Surr: Dibromofluoromethane	49.69	0	50	0	99.4	77 - 123			
Surr: Toluene-d8	49.85	0	50	0	99.7	82 - 127			

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20020929

QC BATCH REPORT

Batch ID: R356810 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS20020842-01MSD	Units: ug/L		Analysis Date: 22-Feb-2020 05:32						
Client ID:	Run ID: VOA9_356810	SeqNo: 5483482		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.81	5.0	20	0	94.0	70 - 127	19.91	5.72	20	
Ethylbenzene	19.51	5.0	20	0	97.5	70 - 124	20.83	6.56	20	
Toluene	18.88	5.0	20	0	94.4	70 - 123	20.35	7.5	20	
Xylenes, Total	59.69	5.0	60	0	99.5	70 - 130	63.93	6.87	20	
Surr: 1,2-Dichloroethane-d4	47.77	0	50	0	95.5	70 - 126	47.63	0.297	20	
Surr: 4-Bromofluorobenzene	50.53	0	50	0	101	82 - 124	50.47	0.118	20	
Surr: Dibromofluoromethane	48.82	0	50	0	97.6	77 - 123	49.69	1.77	20	
Surr: Toluene-d8	50.22	0	50	0	100	82 - 127	49.85	0.737	20	
The following samples were analyzed in this batch: HS20020929-01 HS20020929-02										

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20020929

QC BATCH REPORT

Batch ID: R356820 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200223	Units: ug/L		Analysis Date: 23-Feb-2020 15:01					
Client ID:	Run ID: VOA6_356820	SeqNo: 5483640		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	47.61	0	50	0	95.2	70 - 130			
Surr: 4-Bromofluorobenzene	50.86	0	50	0	102	82 - 115			
Surr: Dibromofluoromethane	47.81	0	50	0	95.6	73 - 126			
Surr: Toluene-d8	55.57	0	50	0	111	81 - 120			

LCS	Sample ID: VLCSW-200223	Units: ug/L		Analysis Date: 23-Feb-2020 14:13					
Client ID:	Run ID: VOA6_356820	SeqNo: 5483639		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	19.19	5.0	20	0	96.0	74 - 120			
Ethylbenzene	19.81	5.0	20	0	99.0	77 - 117			
Toluene	19.61	5.0	20	0	98.1	77 - 118			
Xylenes, Total	60.43	5.0	60	0	101	75 - 122			
Surr: 1,2-Dichloroethane-d4	49	0	50	0	98.0	70 - 130			
Surr: 4-Bromofluorobenzene	45.45	0	50	0	90.9	82 - 115			
Surr: Dibromofluoromethane	46.31	0	50	0	92.6	73 - 126			
Surr: Toluene-d8	45.58	0	50	0	91.2	81 - 120			

MS	Sample ID: HS20020929-03MS	Units: ug/L		Analysis Date: 23-Feb-2020 18:13					
Client ID: MW-3	Run ID: VOA6_356820	SeqNo: 5483642		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	18.31	5.0	20	0	91.6	70 - 127			
Ethylbenzene	20.53	5.0	20	0	103	70 - 124			
Toluene	20.28	5.0	20	0	101	70 - 123			
Xylenes, Total	62.08	5.0	60	0	103	70 - 130			
Surr: 1,2-Dichloroethane-d4	47.17	0	50	0	94.3	70 - 126			
Surr: 4-Bromofluorobenzene	51.87	0	50	0	104	82 - 124			
Surr: Dibromofluoromethane	47.78	0	50	0	95.6	77 - 123			
Surr: Toluene-d8	53.82	0	50	0	108	82 - 127			

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20020929

QC BATCH REPORT

Batch ID: R356820 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20020929-03MSD		Units: ug/L		Analysis Date: 23-Feb-2020 18:37			
Client ID: MW-3		Run ID: VOA6_356820		SeqNo: 5483643		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	17.97	5.0	20	0	89.9	70 - 127	18.31	1.86	20
Ethylbenzene	20.13	5.0	20	0	101	70 - 124	20.53	2.01	20
Toluene	19.7	5.0	20	0	98.5	70 - 123	20.28	2.9	20
Xylenes, Total	59.6	5.0	60	0	99.3	70 - 130	62.08	4.07	20
Surr: 1,2-Dichloroethane-d4	48.8	0	50	0	97.6	70 - 126	47.17	3.39	20
Surr: 4-Bromofluorobenzene	50.63	0	50	0	101	82 - 124	51.87	2.42	20
Surr: Dibromofluoromethane	48.14	0	50	0	96.3	77 - 123	47.78	0.75	20
Surr: Toluene-d8	53.49	0	50	0	107	82 - 127	53.82	0.616	20
The following samples were analyzed in this batch:									
HS20020929-03 HS20020929-04 HS20020929-05 HS20020929-06 HS20020929-07									

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20020929

QC BATCH REPORT

Batch ID: R357301 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: WBLKW1-022820	Units: mg/L		Analysis Date: 28-Feb-2020 14:02					
Client ID:	Run ID: ICS-Integrion_357301	SeqNo: 5493884		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: WLCSW1-022820	Units: mg/L		Analysis Date: 28-Feb-2020 14:20					
Client ID:	Run ID: ICS-Integrion_357301	SeqNo: 5493885		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	20.01	0.500	20	0	100	90 - 110			
LCSD	Sample ID: WLCSDW1-022820	Units: mg/L		Analysis Date: 28-Feb-2020 14:38					
Client ID:	Run ID: ICS-Integrion_357301	SeqNo: 5493886		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.89	0.500	20	0	99.4	90 - 110	20.01	0.637	20
MS	Sample ID: HS20020929-05MS	Units: mg/L		Analysis Date: 28-Feb-2020 17:58					
Client ID: MW-5	Run ID: ICS-Integrion_357301	SeqNo: 5493897		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	60.31	0.500	10	51.28	90.3	80 - 120			C
MSD	Sample ID: HS20020929-05MSD	Units: mg/L		Analysis Date: 28-Feb-2020 18:16					
Client ID: MW-5	Run ID: ICS-Integrion_357301	SeqNo: 5493900		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	60.23	0.500	10	51.28	89.5	80 - 120	60.31	0.131	20 C
The following samples were analyzed in this batch:									
HS20020929-01		HS20020929-02		HS20020929-03		HS20020929-04			
HS20020929-05		HS20020929-06							

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20020929

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 29-Feb-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	19-028-0	27-Mar-2020
California	2919, 2019-2020	30-Apr-2020
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Illinois	2000322019-2	09-May-2020
Kansas	E-10352 2019-2020	31-Jul-2020
Kentucky	123043, 2019-2020	30-Apr-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2019-2020	30-Apr-2020
Oklahoma	2019-067	31-Aug-2020
Texas	T104704231-19-25	30-Apr-2020

ALS Houston, US

Date: 29-Feb-20

Sample Receipt Checklist

Client Name: Glen Springs/CRA

Date/Time Received: **21-Feb-2020 08:35**

Work Order: HS20020929

Received by: **AC**

Checklist completed by: Jared R. Makan 21-Feb-2020
eSignature Date

Reviewed by: Dane J. Wacasey 25-Feb-2020
eSignature Date

Matrices: **Water**Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:215026
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.2°C/1.2°C UC/C IR25		
Cooler(s)/Kit(s):	43080		
Date/Time sample(s) sent to storage:	02/21/2020 13:58		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



Chain of Custody Form

Page 1 of 1

COC ID: 215026

Customer Information		Project Information		ALS Project Manager:													ALS Work Order #:	
Parameter/Method Request for Analysis																		
Purchase Order	4502201559 ENV 749-402-D02-1'0	Project Name	GSHI PXP Elliot E.M. Federal TB	A	8260_W (BTEX)													
Work Order		Project Number	55626DM (ENV749A006)	B	300_W (Chloride)													
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (BTEX) Trip Blank													
Send Report To	Mike Carmona	Invoice Attn	Accounts Payable	D														
Address	PO Box 2148	Address	PO Box 2148	E	HS20020929 Glenn Springs Holdings, Inc. 55626DM GSHI PXP Elliot E.M. Federal TB 													
				F														
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	G														
Phone		Phone		H														
Fax		Fax		I														
e-Mail Address	Mike.Carmona@tetratech.com	e-Mail Address		J														
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	MW-1R	2-18-20	1255	Groundwa	1,8	4	X	X										
2	MW-2	2-18-20	1235	Groundwa	1,8	4	X	X										
3	MW-3	2-18-20	1305	Groundwa	1,8	4	X	X										
4	MW-4	2-18-20	1215	Groundwa	1,8	4	X	X										
5	MW-5	2-18-20	1210	Groundwa	1,8	4	X	X										
6	DUP	2-18-20	—	Groundwa	1,8	4	X	X										
7	Trip Blank		—	Water	1,8	2			X									
8																		
9																		
10																		
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:										
Preston Paitevut		FedEx		☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour														
Relinquished by:		Date:	Time:	Received by:		Notes:												
Relinquished by:		Date:	Time:	Received by (Laboratory):		[GSHI PXP Elliot EM Federal TB]												
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)										
		Date:	Time:			43080	11.2	☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SWB46/CLP ☐ Other										
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 2-20-20	Time: 1630	SN
	Name: <u>Breton Bittant</u>		Date: 02/21/20
	Company: <u>Chetco</u>		

43080 FEB 21 2020



Must Deliver Next Business Day
Time and Temperature Sensitive!

43080

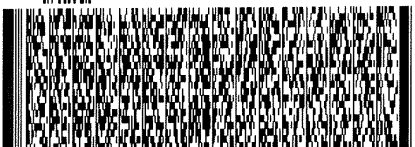
ORIGIN ID:SGRA (432) 682-4559
 MIKE CARMONA
 GSHI-TETRA TECH
 901 WEST WALL STREET
 SUITE 100
 MIDLAND, TX 79701
 UNITED STATES US

SHIP DATE: 14FEB20
 ACTWGT: 1.00 LB HAN
 CAD: 300130/CAFE3211
 DIMS: 19x16x13 IN

TO
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099

(281) 530-5656
 REF: PXP HILL-DW

RMA: ||| |||| |||



FedEx Express



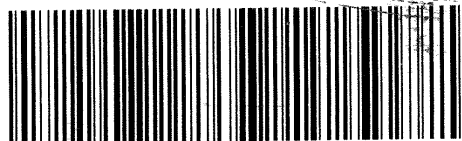
FedEx
 TRK#
 0221 1251 0294 5539

FRI - 21 FEB 10:30A
 PRIORITY OVERNIGHT

AB SGRA

77099

TX-US IAH



#2625664 02/20 56BJ2/049E/FE4R



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

May 14, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20050232**

Laboratory Results for: **55626DM GSHI PXP Elliot E.M. Federal TB**

Dear Mike,

ALS Environmental received 6 sample(s) on May 07, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
Work Order: HS20050232

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20050232-01	MW-1R	Groundwater		04-May-2020 13:30	07-May-2020 09:05	☐
HS20050232-02	MW-2	Groundwater		04-May-2020 12:40	07-May-2020 09:05	☐
HS20050232-03	MW-3	Groundwater		04-May-2020 11:50	07-May-2020 09:05	☐
HS20050232-04	MW-4	Groundwater		04-May-2020 12:50	07-May-2020 09:05	☐
HS20050232-05	MW-5	Groundwater		04-May-2020 11:45	07-May-2020 09:05	☐
HS20050232-06	DUP	Groundwater		04-May-2020 00:00	07-May-2020 09:05	☐

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
Work Order: HS20050232

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R361318

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R361567

Sample ID: HS20050224-01MS

- MS and MSD are for an unrelated sample

Sample ID: HS20050385-03MS

- MS and MSD are for an unrelated sample
-

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-1R
 Collection Date: 04-May-2020 13:30

ANALYTICAL REPORT

WorkOrder:HS20050232
 Lab ID:HS20050232-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	10-May-2020 20:19
Ethylbenzene	U		0.00050	0.0050	mg/L	1	10-May-2020 20:19
Toluene	U		0.00050	0.0050	mg/L	1	10-May-2020 20:19
Xylenes, Total	U		0.00050	0.0050	mg/L	1	10-May-2020 20:19
Surr: 1,2-Dichloroethane-d4	98.7			70-126	%REC	1	10-May-2020 20:19
Surr: 4-Bromofluorobenzene	94.0			82-124	%REC	1	10-May-2020 20:19
Surr: Dibromofluoromethane	103			77-123	%REC	1	10-May-2020 20:19
Surr: Toluene-d8	98.3			82-127	%REC	1	10-May-2020 20:19
ANIONS BY E300.0		Method:E300				Analyst: JHD	
Chloride	7,980		200	500	mg/L	1000	13-May-2020 04:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-2
 Collection Date: 04-May-2020 12:40

ANALYTICAL REPORT

WorkOrder:HS20050232
 Lab ID:HS20050232-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	10-May-2020 21:32
Ethylbenzene	U		0.00050	0.0050	mg/L	1	10-May-2020 21:32
Toluene	U		0.00050	0.0050	mg/L	1	10-May-2020 21:32
Xylenes, Total	U		0.00050	0.0050	mg/L	1	10-May-2020 21:32
Surr: 1,2-Dichloroethane-d4	98.5			70-126	%REC	1	10-May-2020 21:32
Surr: 4-Bromofluorobenzene	93.9			82-124	%REC	1	10-May-2020 21:32
Surr: Dibromofluoromethane	98.9			77-123	%REC	1	10-May-2020 21:32
Surr: Toluene-d8	98.7			82-127	%REC	1	10-May-2020 21:32
ANIONS BY E300.0		Method:E300				Analyst: JHD	
Chloride	53.7		0.400	1.00	mg/L	2	13-May-2020 05:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-3
 Collection Date: 04-May-2020 11:50

ANALYTICAL REPORT

WorkOrder:HS20050232
 Lab ID:HS20050232-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	10-May-2020 21:56
Ethylbenzene	U		0.00050	0.0050	mg/L	1	10-May-2020 21:56
Toluene	U		0.00050	0.0050	mg/L	1	10-May-2020 21:56
Xylenes, Total	U		0.00050	0.0050	mg/L	1	10-May-2020 21:56
Surr: 1,2-Dichloroethane-d4	99.0			70-126	%REC	1	10-May-2020 21:56
Surr: 4-Bromofluorobenzene	93.2			82-124	%REC	1	10-May-2020 21:56
Surr: Dibromofluoromethane	102			77-123	%REC	1	10-May-2020 21:56
Surr: Toluene-d8	97.3			82-127	%REC	1	10-May-2020 21:56
ANIONS BY E300.0		Method:E300				Analyst: JHD	
Chloride	56.1		0.400	1.00	mg/L	2	13-May-2020 05:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-4
 Collection Date: 04-May-2020 12:50

ANALYTICAL REPORT

WorkOrder:HS20050232
 Lab ID:HS20050232-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	10-May-2020 22:21
Ethylbenzene	U		0.00050	0.0050	mg/L	1	10-May-2020 22:21
Toluene	U		0.00050	0.0050	mg/L	1	10-May-2020 22:21
Xylenes, Total	U		0.00050	0.0050	mg/L	1	10-May-2020 22:21
Surr: 1,2-Dichloroethane-d4	97.8			70-126	%REC	1	10-May-2020 22:21
Surr: 4-Bromofluorobenzene	94.5			82-124	%REC	1	10-May-2020 22:21
Surr: Dibromofluoromethane	100			77-123	%REC	1	10-May-2020 22:21
Surr: Toluene-d8	98.4			82-127	%REC	1	10-May-2020 22:21
ANIONS BY E300.0		Method:E300				Analyst: JHD	
Chloride	1,040		20.0	50.0	mg/L	100	13-May-2020 05:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-5
 Collection Date: 04-May-2020 11:45

ANALYTICAL REPORT

WorkOrder:HS20050232
 Lab ID:HS20050232-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	10-May-2020 22:45
Ethylbenzene	U		0.00050	0.0050	mg/L	1	10-May-2020 22:45
Toluene	U		0.00050	0.0050	mg/L	1	10-May-2020 22:45
Xylenes, Total	U		0.00050	0.0050	mg/L	1	10-May-2020 22:45
Surr: 1,2-Dichloroethane-d4	98.3			70-126	%REC	1	10-May-2020 22:45
Surr: 4-Bromofluorobenzene	93.5			82-124	%REC	1	10-May-2020 22:45
Surr: Dibromofluoromethane	102			77-123	%REC	1	10-May-2020 22:45
Surr: Toluene-d8	97.9			82-127	%REC	1	10-May-2020 22:45
ANIONS BY E300.0		Method:E300				Analyst: JHD	
Chloride	49.4		0.400	1.00	mg/L	2	13-May-2020 06:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: DUP
 Collection Date: 04-May-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20050232
 Lab ID:HS20050232-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	10-May-2020 23:09
Ethylbenzene	U		0.00050	0.0050	mg/L	1	10-May-2020 23:09
Toluene	U		0.00050	0.0050	mg/L	1	10-May-2020 23:09
Xylenes, Total	U		0.00050	0.0050	mg/L	1	10-May-2020 23:09
Surr: 1,2-Dichloroethane-d4	99.1			70-126	%REC	1	10-May-2020 23:09
Surr: 4-Bromofluorobenzene	94.4			82-124	%REC	1	10-May-2020 23:09
Surr: Dibromofluoromethane	102			77-123	%REC	1	10-May-2020 23:09
Surr: Toluene-d8	97.7			82-127	%REC	1	10-May-2020 23:09
ANIONS BY E300.0		Method:E300				Analyst: JHD	
Chloride	1,050		20.0	50.0	mg/L	100	13-May-2020 06:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20050232

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R361318 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20050232-01	MW-1R	04 May 2020 13:30			10 May 2020 20:19	1
HS20050232-02	MW-2	04 May 2020 12:40			10 May 2020 21:32	1
HS20050232-03	MW-3	04 May 2020 11:50			10 May 2020 21:56	1
HS20050232-04	MW-4	04 May 2020 12:50			10 May 2020 22:21	1
HS20050232-05	MW-5	04 May 2020 11:45			10 May 2020 22:45	1
HS20050232-06	DUP	04 May 2020 00:00			10 May 2020 23:09	1
Batch ID: R361567 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20050232-01	MW-1R	04 May 2020 13:30			13 May 2020 04:44	1000
HS20050232-02	MW-2	04 May 2020 12:40			13 May 2020 05:02	2
HS20050232-03	MW-3	04 May 2020 11:50			13 May 2020 05:20	2
HS20050232-04	MW-4	04 May 2020 12:50			13 May 2020 05:38	100
HS20050232-05	MW-5	04 May 2020 11:45			13 May 2020 06:32	2
HS20050232-06	DUP	04 May 2020 00:00			13 May 2020 06:50	100

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20050232

QC BATCH REPORT

Batch ID: R361318 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200510	Units: ug/L		Analysis Date: 10-May-2020 14:14					
Client ID:	Run ID: VOA9_361318	SeqNo: 5579649		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	48.07	0	50	0	96.1	70 - 130			
Surr: 4-Bromofluorobenzene	48.08	0	50	0	96.2	82 - 115			
Surr: Dibromofluoromethane	51.05	0	50	0	102	73 - 126			
Surr: Toluene-d8	49.39	0	50	0	98.8	81 - 120			

LCS	Sample ID: VLCSW-200510	Units: ug/L		Analysis Date: 10-May-2020 13:26					
Client ID:	Run ID: VOA9_361318	SeqNo: 5579648		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.8	5.0	20	0	94.0	74 - 120			
Ethylbenzene	18.69	5.0	20	0	93.5	77 - 117			
Toluene	18.38	5.0	20	0	91.9	77 - 118			
Xylenes, Total	59.05	5.0	60	0	98.4	75 - 122			
Surr: 1,2-Dichloroethane-d4	47.5	0	50	0	95.0	70 - 130			
Surr: 4-Bromofluorobenzene	50.78	0	50	0	102	82 - 115			
Surr: Dibromofluoromethane	49.28	0	50	0	98.6	73 - 126			
Surr: Toluene-d8	49.05	0	50	0	98.1	81 - 120			

MS	Sample ID: HS20050188-06MS	Units: ug/L		Analysis Date: 10-May-2020 15:27					
Client ID:	Run ID: VOA9_361318	SeqNo: 5579652		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	23.17	5.0	20	0	116	70 - 127			
Ethylbenzene	23.91	5.0	20	0	120	70 - 124			
Toluene	23.05	5.0	20	0	115	70 - 123			
Xylenes, Total	73.79	5.0	60	0	123	70 - 130			
Surr: 1,2-Dichloroethane-d4	47.71	0	50	0	95.4	70 - 126			
Surr: 4-Bromofluorobenzene	50.28	0	50	0	101	82 - 124			
Surr: Dibromofluoromethane	49.51	0	50	0	99.0	77 - 123			
Surr: Toluene-d8	48.99	0	50	0	98.0	82 - 127			

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20050232

QC BATCH REPORT

Batch ID: R361318 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS20050188-06MSD	Units: ug/L			Analysis Date: 10-May-2020 15:51					
Client ID:	Run ID: VOA9_361318	SeqNo: 5579653		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.5	5.0	20	0	108	70 - 127	23.17	7.49	20	
Ethylbenzene	21.71	5.0	20	0	109	70 - 124	23.91	9.64	20	
Toluene	21.31	5.0	20	0	107	70 - 123	23.05	7.86	20	
Xylenes, Total	68.15	5.0	60	0	114	70 - 130	73.79	7.95	20	
Surr: 1,2-Dichloroethane-d4	46.77	0	50	0	93.5	70 - 126	47.71	1.98	20	
Surr: 4-Bromofluorobenzene	50.46	0	50	0	101	82 - 124	50.28	0.367	20	
Surr: Dibromofluoromethane	49.44	0	50	0	98.9	77 - 123	49.51	0.147	20	
Surr: Toluene-d8	49.19	0	50	0	98.4	82 - 127	48.99	0.408	20	
The following samples were analyzed in this batch:		HS20050232-01		HS20050232-02		HS20050232-03		HS20050232-04		
		HS20050232-05		HS20050232-06						

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20050232

QC BATCH REPORT

Batch ID: R361567 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-051220	Units: mg/L		Analysis Date: 12-May-2020 18:28					
Client ID:	Run ID: ICS-Integrion_361567		SeqNo: 5584810		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS5-051220	Units: mg/L		Analysis Date: 12-May-2020 18:46					
Client ID:	Run ID: ICS-Integrion_361567		SeqNo: 5584811		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	20.19	0.500	20	0	101	90 - 110			
LCSD	Sample ID: LCSD5-051220	Units: mg/L		Analysis Date: 12-May-2020 19:04					
Client ID:	Run ID: ICS-Integrion_361567		SeqNo: 5584812		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.72	0.500	20	0	98.6	90 - 110	20.19	2.37	20
MS	Sample ID: HS20050385-03MS	Units: mg/L		Analysis Date: 13-May-2020 01:43					
Client ID:	Run ID: ICS-Integrion_361567		SeqNo: 5584829		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	373.9	0.500	10	369.3	45.9	80 - 120			SEO
MS	Sample ID: HS20050224-01MS	Units: mg/L		Analysis Date: 13-May-2020 03:31					
Client ID:	Run ID: ICS-Integrion_361567		SeqNo: 5584835		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	295.3	0.500	10	291.5	37.1	80 - 120			SEO
MSD	Sample ID: HS20050385-03MSD	Units: mg/L		Analysis Date: 13-May-2020 02:01					
Client ID:	Run ID: ICS-Integrion_361567		SeqNo: 5584830		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	378.1	0.500	10	369.3	88.2	80 - 120	373.9	1.12	20 EO

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20050232

QC BATCH REPORT

Batch ID: R361567 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD	Sample ID: HS20050224-01MSD	Units: mg/L			Analysis Date: 13-May-2020 03:49					
Client ID:	Run ID: ICS-Integrion_361567		SeqNo: 5584836		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	295.7	0.500	10	291.5	41.3	80 - 120	295.3	0.141	20	SEO
The following samples were analyzed in this batch:										
HS20050232-01		HS20050232-02		HS20050232-03		HS20050232-04				
HS20050232-05		HS20050232-06								

ALS Houston, US

Date: 14-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20050232

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 14-May-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Kansas	E-10352 2019-2020	31-Jul-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 14-May-20

Sample Receipt Checklist

Work Order ID: HS20050232

Date/Time Received: 07-May-2020 09:05

Client Name: Glen Springs/CRA

Received by: Paresh M. Giga

Completed By: <u>/S/ Jared R. Makan</u>	07-May-2020 11:56	Reviewed by: <u>/S/ Dane J. Wacasey</u>	08-May-2020 15:17
eSignature	Date/Time	eSignature	Date/Time

Matrices: WaterCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:222303
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.0°C/1.0°C UC/C IR25		
Cooler(s)/Kit(s):	45670		
Date/Time sample(s) sent to storage:	05/07/2020 12:00		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			
Login Notes:	Trip Blank listed on COC was not received.		

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Chain of Custody Form

HS20050232

Everett, WA
+1 425 356 2600Holland, MI
+1 616 399 6070

Page 1 of 1

COC ID: 222303

Glenn Springs Holdings, Inc.
55626DM GSHI PXP Elliot E.M. Federal TB

Customer Information				Project Information				ALS Project Manager:												
Purchase Order	4502201559 ENV 749-402-D02-110			Project Name	GSHI PXP Elliot E.M. Federal TB			A	8260_W(BTEX)											
Work Order				Project Number	55626DM (ENV749A006)			B	300_W(Chloride)											
Company Name	Glenn Springs Holdings, Inc.			Bill To Company	Glenn Springs Holdings, Inc.			C	8260_W(BTEX) Trip Blank											
Send Report To	Mike Camona			Invoice Attn	Accounts Payable			D												
Address	PO Box 2148			Address	PO Box 2148			E												
								F												
City/State/Zip	Houston, TX 77252-2148			City/State/Zip	Houston TX 77252-2148			G												
Phone				Phone				H												
Fax				Fax				I												
e-Mail Address	Mike.Camona@tetratech.com			e-Mail Address				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1R	5-4-20	1330	Groundwa	1,8	4	X	X									
2	MW-2	5-4-20	1240	Groundwa	1,8	4	X	X									
3	MW-3	5-4-20	1150	Groundwa	1,8	4	X	X									
4	MW-4	5-4-20	1250	Groundwa	1,8	4	X	X									
5	MW-5	5-4-20	1145	Groundwa	1,8	4	X	X									
6	DUP	5-4-20		Groundwa	1,8	4	X	X									
7	Trip Blank			Water	1,8	2			X								
8																	
9																	
10																	

Sampler(s) Please Print & Sign				Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
Preston B. Beyer 5-6-20 1630				FedEx		☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour					
Relinquished by:				Received by:		Notes: [GSHI PXP Elliot EM Federal TB]					
Relinquished by:				Received by (Laboratory):		Cooler ID					
Logged by (Laboratory):				Checked by (Laboratory):		Cooler Temp.					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						QC Package: (Check One Box Below)					
						☒ Level II Std QC ☐ TRRP Checklist					
						☐ Level III Std QC/Raw Data ☐ TRRP Level IV					
						☐ Level IV SW846/CLP ☐ Other					

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 5-6-20	Time: 16:30	8M
	Name: Houston Tech	Company: Houston Tech	Date: 05/07/20

45670 MAY 07 2020



Must Deliver Next Business Day
Time and Temperature Sensitive!

45670

ORIGIN ID:SGRA (432) 682-4559
 MIKE CAMONA
 GSHI-TETRA TECH
 901 WEST WALL ST.
 SUITE 100
 MIDLAND, TX 79701
 UNITED STATES US

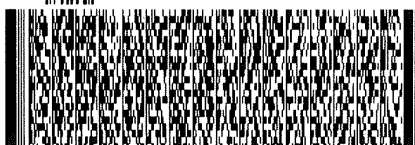
SHIP DATE: 24APR20
 ACTWGT: 6.40 LB
 CAD: 300130/CAFE3211
 DIMS: 19x16x13 IN

TO **CLIENT SERVICES**
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099

(281) 630-5656

REF: 556260DM - BO 71565/6 - DW

RMA: ||| ||| |||

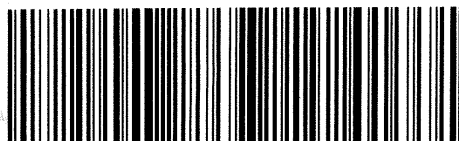
FedEx
Express

FedEx
 TRK# 1251 0296 5975
 0221

THU - 07 MAY 10:30A
 PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US IAH



*3785666 05/06 56BJ3/2925/FE4R



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

August 24, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20080611**

Laboratory Results for: **55626DM GSHI PXP Elliot E.M. Federal TB**

Dear Mike Carmona,

ALS Environmental received 7 sample(s) on Aug 13, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER

Dane J. Wacasey

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
Work Order: HS20080611

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20080611-01	MW-1R	Groundwater		11-Aug-2020 13:40	13-Aug-2020 09:15	☐
HS20080611-02	MW-2	Groundwater		11-Aug-2020 12:30	13-Aug-2020 09:15	☐
HS20080611-03	MW-3	Groundwater		11-Aug-2020 12:25	13-Aug-2020 09:15	☐
HS20080611-04	MW-4	Groundwater		11-Aug-2020 11:10	13-Aug-2020 09:15	☐
HS20080611-05	MW-5	Groundwater		11-Aug-2020 11:45	13-Aug-2020 09:15	☐
HS20080611-06	DUP	Groundwater		11-Aug-2020 00:00	13-Aug-2020 09:15	☐
HS20080611-07	Trip blank	Water		11-Aug-2020 00:00	13-Aug-2020 09:15	☐

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
Work Order: HS20080611

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R366954

Sample ID: HS20080643-04MS

- MS and MSD are for an unrelated sample

Batch ID: R366918,R366924,R366993

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R367306

Sample ID: MW-2 (HS20080611-02MSD)

- The matrix spike duplicate recovery was outside of the control limits. However, the matrix spike recovery and the RPD between the MS and MSD was in control. (Chloride)
-

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-1R
 Collection Date: 11-Aug-2020 13:40

ANALYTICAL REPORT

WorkOrder:HS20080611
 Lab ID:HS20080611-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	17-Aug-2020 15:36
Ethylbenzene	U		0.00050	0.0050	mg/L	1	17-Aug-2020 15:36
Toluene	U		0.00050	0.0050	mg/L	1	17-Aug-2020 15:36
Xylenes, Total	U		0.00050	0.0050	mg/L	1	17-Aug-2020 15:36
Surr: 1,2-Dichloroethane-d4	103			70-126	%REC	1	17-Aug-2020 15:36
Surr: 4-Bromofluorobenzene	94.1			82-124	%REC	1	17-Aug-2020 15:36
Surr: Dibromofluoromethane	104			77-123	%REC	1	17-Aug-2020 15:36
Surr: Toluene-d8	99.9			82-127	%REC	1	17-Aug-2020 15:36
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	10,600		40.0	100	mg/L	200	22-Aug-2020 10:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-2
 Collection Date: 11-Aug-2020 12:30

ANALYTICAL REPORT

WorkOrder:HS20080611
 Lab ID:HS20080611-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	18-Aug-2020 09:23
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 09:23
Toluene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 09:23
Xylenes, Total	U		0.00050	0.0050	mg/L	1	18-Aug-2020 09:23
Surr: 1,2-Dichloroethane-d4	87.9			70-126	%REC	1	18-Aug-2020 09:23
Surr: 4-Bromofluorobenzene	96.0			82-124	%REC	1	18-Aug-2020 09:23
Surr: Dibromofluoromethane	92.8			77-123	%REC	1	18-Aug-2020 09:23
Surr: Toluene-d8	107			82-127	%REC	1	18-Aug-2020 09:23
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	56.9		0.200	0.500	mg/L	1	22-Aug-2020 10:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-3
 Collection Date: 11-Aug-2020 12:25

ANALYTICAL REPORT

WorkOrder:HS20080611
 Lab ID:HS20080611-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	18-Aug-2020 09:47
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 09:47
Toluene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 09:47
Xylenes, Total	U		0.00050	0.0050	mg/L	1	18-Aug-2020 09:47
Surr: 1,2-Dichloroethane-d4	88.7			70-126	%REC	1	18-Aug-2020 09:47
Surr: 4-Bromofluorobenzene	97.1			82-124	%REC	1	18-Aug-2020 09:47
Surr: Dibromofluoromethane	93.2			77-123	%REC	1	18-Aug-2020 09:47
Surr: Toluene-d8	107			82-127	%REC	1	18-Aug-2020 09:47
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	63.4		0.200	0.500	mg/L	1	22-Aug-2020 12:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-4
 Collection Date: 11-Aug-2020 11:10

ANALYTICAL REPORT

WorkOrder:HS20080611
 Lab ID:HS20080611-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	18-Aug-2020 19:56
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 19:56
Toluene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 19:56
Xylenes, Total	U		0.00050	0.0050	mg/L	1	18-Aug-2020 19:56
Surr: 1,2-Dichloroethane-d4	88.8			70-126	%REC	1	18-Aug-2020 19:56
Surr: 4-Bromofluorobenzene	98.7			82-124	%REC	1	18-Aug-2020 19:56
Surr: Dibromofluoromethane	92.7			77-123	%REC	1	18-Aug-2020 19:56
Surr: Toluene-d8	107			82-127	%REC	1	18-Aug-2020 19:56
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	818		10.0	25.0	mg/L	50	22-Aug-2020 19:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-5
 Collection Date: 11-Aug-2020 11:45

ANALYTICAL REPORT

WorkOrder:HS20080611
 Lab ID:HS20080611-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	18-Aug-2020 20:20
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 20:20
Toluene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 20:20
Xylenes, Total	U		0.00050	0.0050	mg/L	1	18-Aug-2020 20:20
Surr: 1,2-Dichloroethane-d4	89.8			70-126	%REC	1	18-Aug-2020 20:20
Surr: 4-Bromofluorobenzene	94.3			82-124	%REC	1	18-Aug-2020 20:20
Surr: Dibromofluoromethane	92.0			77-123	%REC	1	18-Aug-2020 20:20
Surr: Toluene-d8	108			82-127	%REC	1	18-Aug-2020 20:20
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	50.2		0.200	0.500	mg/L	1	22-Aug-2020 19:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: DUP
 Collection Date: 11-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080611
 Lab ID:HS20080611-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	18-Aug-2020 20:44
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 20:44
Toluene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 20:44
Xylenes, Total	U		0.00050	0.0050	mg/L	1	18-Aug-2020 20:44
Surr: 1,2-Dichloroethane-d4	88.7			70-126	%REC	1	18-Aug-2020 20:44
Surr: 4-Bromofluorobenzene	96.1			82-124	%REC	1	18-Aug-2020 20:44
Surr: Dibromofluoromethane	92.0			77-123	%REC	1	18-Aug-2020 20:44
Surr: Toluene-d8	107			82-127	%REC	1	18-Aug-2020 20:44
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	828		10.0	25.0	mg/L	50	22-Aug-2020 19:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626DM GSHI PXP Elliot E.M. Federal TB
 Sample ID: Trip blank
 Collection Date: 11-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080611
 Lab ID:HS20080611-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	18-Aug-2020 18:34
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 18:34
Toluene	U		0.00050	0.0050	mg/L	1	18-Aug-2020 18:34
Xylenes, Total	U		0.00050	0.0050	mg/L	1	18-Aug-2020 18:34
Surr: 1,2-Dichloroethane-d4	110			70-126	%REC	1	18-Aug-2020 18:34
Surr: 4-Bromofluorobenzene	93.7			82-124	%REC	1	18-Aug-2020 18:34
Surr: Dibromofluoromethane	109			77-123	%REC	1	18-Aug-2020 18:34
Surr: Toluene-d8	100			82-127	%REC	1	18-Aug-2020 18:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R366918 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080611-02	MW-2	11 Aug 2020 12:30			18 Aug 2020 09:23	1
HS20080611-03	MW-3	11 Aug 2020 12:25			18 Aug 2020 09:47	1
Batch ID: R366924 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080611-01	MW-1R	11 Aug 2020 13:40			17 Aug 2020 15:36	1
Batch ID: R366954 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080611-04	MW-4	11 Aug 2020 11:10			18 Aug 2020 19:56	1
HS20080611-05	MW-5	11 Aug 2020 11:45			18 Aug 2020 20:20	1
HS20080611-06	DUP	11 Aug 2020 00:00			18 Aug 2020 20:44	1
Batch ID: R366993 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS20080611-07	Trip blank	11 Aug 2020 00:00			18 Aug 2020 18:34	1
Batch ID: R367306 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20080611-01	MW-1R	11 Aug 2020 13:40			22 Aug 2020 10:13	200
HS20080611-02	MW-2	11 Aug 2020 12:30			22 Aug 2020 10:31	1
HS20080611-03	MW-3	11 Aug 2020 12:25			22 Aug 2020 12:01	1
HS20080611-04	MW-4	11 Aug 2020 11:10			22 Aug 2020 19:14	50
HS20080611-05	MW-5	11 Aug 2020 11:45			22 Aug 2020 19:32	1
HS20080611-06	DUP	11 Aug 2020 00:00			22 Aug 2020 19:50	50

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366918 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200817	Units: ug/L		Analysis Date: 18-Aug-2020 00:57					
Client ID:	Run ID: VOA6_366918	SeqNo: 5703767		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	44.24	0	50	0	88.5	70 - 130			
Surr: 4-Bromofluorobenzene	48.25	0	50	0	96.5	82 - 115			
Surr: Dibromofluoromethane	46.52	0	50	0	93.0	73 - 126			
Surr: Toluene-d8	53.65	0	50	0	107	81 - 120			

LCS	Sample ID: VLCSW-200817	Units: ug/L		Analysis Date: 18-Aug-2020 00:09					
Client ID:	Run ID: VOA6_366918	SeqNo: 5703766		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	20.27	5.0	20	0	101	74 - 120			
Ethylbenzene	19.8	5.0	20	0	99.0	77 - 117			
Toluene	19.89	5.0	20	0	99.4	77 - 118			
Xylenes, Total	58.79	5.0	60	0	98.0	75 - 122			
Surr: 1,2-Dichloroethane-d4	47.53	0	50	0	95.1	70 - 130			
Surr: 4-Bromofluorobenzene	44.5	0	50	0	89.0	82 - 115			
Surr: Dibromofluoromethane	47.3	0	50	0	94.6	73 - 126			
Surr: Toluene-d8	46.32	0	50	0	92.6	81 - 120			

MS	Sample ID: HS20080658-04MS	Units: ug/L		Analysis Date: 18-Aug-2020 02:58					
Client ID:	Run ID: VOA6_366918	SeqNo: 5703769		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	23.67	5.0	20	0	118	70 - 127			
Ethylbenzene	24	5.0	20	0	120	70 - 124			
Toluene	24.1	5.0	20	0	120	70 - 123			
Xylenes, Total	70.28	5.0	60	0	117	70 - 130			
Surr: 1,2-Dichloroethane-d4	44.98	0	50	0	90.0	70 - 126			
Surr: 4-Bromofluorobenzene	47.6	0	50	0	95.2	82 - 124			
Surr: Dibromofluoromethane	47.32	0	50	0	94.6	77 - 123			
Surr: Toluene-d8	53.2	0	50	0	106	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366918 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS20080658-04MSD	Units: ug/L		Analysis Date: 18-Aug-2020 03:22						
Client ID:	Run ID: VOA6_366918	SeqNo: 5703770		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.77	5.0	20	0	114	70 - 127	23.67	3.87	20	
Ethylbenzene	22.61	5.0	20	0	113	70 - 124	24	5.94	20	
Toluene	22.93	5.0	20	0	115	70 - 123	24.1	4.96	20	
Xylenes, Total	66.28	5.0	60	0	110	70 - 130	70.28	5.86	20	
Surr: 1,2-Dichloroethane-d4	44.43	0	50	0	88.9	70 - 126	44.98	1.25	20	
Surr: 4-Bromofluorobenzene	47.65	0	50	0	95.3	82 - 124	47.6	0.102	20	
Surr: Dibromofluoromethane	46.54	0	50	0	93.1	77 - 123	47.32	1.67	20	
Surr: Toluene-d8	51.9	0	50	0	104	82 - 127	53.2	2.48	20	

The following samples were analyzed in this batch: HS20080611-02 HS20080611-03

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366924 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200817	Units: ug/L		Analysis Date: 17-Aug-2020 15:12					
Client ID:	Run ID: VOA9_366924	SeqNo: 5703865		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	49.41	0	50	0	98.8	70 - 130			
Surr: 4-Bromofluorobenzene	46.84	0	50	0	93.7	82 - 115			
Surr: Dibromofluoromethane	51.49	0	50	0	103	73 - 126			
Surr: Toluene-d8	50.27	0	50	0	101	81 - 120			

LCS	Sample ID: VLCSW-200817	Units: ug/L		Analysis Date: 17-Aug-2020 14:23					
Client ID:	Run ID: VOA9_366924	SeqNo: 5703864		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.7	5.0	20	0	98.5	74 - 120			
Ethylbenzene	18.93	5.0	20	0	94.7	77 - 117			
Toluene	19	5.0	20	0	95.0	77 - 118			
Xylenes, Total	58.92	5.0	60	0	98.2	75 - 122			
Surr: 1,2-Dichloroethane-d4	47.67	0	50	0	95.3	70 - 130			
Surr: 4-Bromofluorobenzene	49.43	0	50	0	98.9	82 - 115			
Surr: Dibromofluoromethane	50.07	0	50	0	100	73 - 126			
Surr: Toluene-d8	49.73	0	50	0	99.5	81 - 120			

MS	Sample ID: HS20080611-01MS	Units: ug/L		Analysis Date: 17-Aug-2020 16:01					
Client ID: MW-1R	Run ID: VOA9_366924	SeqNo: 5703867		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.92	5.0	20	0	110	70 - 127			
Ethylbenzene	21.83	5.0	20	0	109	70 - 124			
Toluene	21.42	5.0	20	0	107	70 - 123			
Xylenes, Total	66.44	5.0	60	0	111	70 - 130			
Surr: 1,2-Dichloroethane-d4	49.95	0	50	0	99.9	70 - 126			
Surr: 4-Bromofluorobenzene	50.91	0	50	0	102	82 - 124			
Surr: Dibromofluoromethane	51.08	0	50	0	102	77 - 123			
Surr: Toluene-d8	50.9	0	50	0	102	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366924 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20080611-01MSD		Units: ug/L		Analysis Date: 17-Aug-2020 16:25			
Client ID: MW-1R		Run ID: VOA9_366924		SeqNo: 5703868		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.86	5.0	20	0	109	70 - 127	21.92	0.307	20
Ethylbenzene	21.92	5.0	20	0	110	70 - 124	21.83	0.412	20
Toluene	21.59	5.0	20	0	108	70 - 123	21.42	0.776	20
Xylenes, Total	66.79	5.0	60	0	111	70 - 130	66.44	0.52	20
Surr: 1,2-Dichloroethane-d4	49.28	0	50	0	98.6	70 - 126	49.95	1.35	20
Surr: 4-Bromofluorobenzene	49.61	0	50	0	99.2	82 - 124	50.91	2.58	20
Surr: Dibromofluoromethane	51.29	0	50	0	103	77 - 123	51.08	0.414	20
Surr: Toluene-d8	50.45	0	50	0	101	82 - 127	50.9	0.896	20

The following samples were analyzed in this batch: HS20080611-01

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366954 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200818	Units: ug/L		Analysis Date: 18-Aug-2020 12:43					
Client ID:	Run ID: VOA6_366954	SeqNo: 5704235		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	44.56	0	50	0	89.1	70 - 130			
Surr: 4-Bromofluorobenzene	48.22	0	50	0	96.4	82 - 115			
Surr: Dibromofluoromethane	46.14	0	50	0	92.3	73 - 126			
Surr: Toluene-d8	53.94	0	50	0	108	81 - 120			

LCS	Sample ID: VLCSW-200818	Units: ug/L		Analysis Date: 18-Aug-2020 11:55					
Client ID:	Run ID: VOA6_366954	SeqNo: 5704234		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.17	5.0	20	0	95.9	74 - 120			
Ethylbenzene	17.69	5.0	20	0	88.4	77 - 117			
Toluene	18.63	5.0	20	0	93.2	77 - 118			
Xylenes, Total	53.65	5.0	60	0	89.4	75 - 122			
Surr: 1,2-Dichloroethane-d4	42.99	0	50	0	86.0	70 - 130			
Surr: 4-Bromofluorobenzene	43.31	0	50	0	86.6	82 - 115			
Surr: Dibromofluoromethane	44	0	50	0	88.0	73 - 126			
Surr: Toluene-d8	45.32	0	50	0	90.6	81 - 120			

MS	Sample ID: HS20080643-04MS	Units: ug/L		Analysis Date: 18-Aug-2020 14:19					
Client ID:	Run ID: VOA6_366954	SeqNo: 5704399		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	24.61	5.0	20	0	123	70 - 127			
Ethylbenzene	25.23	5.0	20	0	126	70 - 124			S
Toluene	25.09	5.0	20	0	125	70 - 123			S
Xylenes, Total	74.17	5.0	60	0	124	70 - 130			
Surr: 1,2-Dichloroethane-d4	44.41	0	50	0	88.8	70 - 126			
Surr: 4-Bromofluorobenzene	48.57	0	50	0	97.1	82 - 124			
Surr: Dibromofluoromethane	46.58	0	50	0	93.2	77 - 123			
Surr: Toluene-d8	52.24	0	50	0	104	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366954 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MSD	Sample ID: HS20080643-04MSD	Units: ug/L		Analysis Date: 18-Aug-2020 14:43					
Client ID:	Run ID: VOA6_366954	SeqNo: 5704400		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	23.59	5.0	20	0	118	70 - 127	24.61	4.22	20
Ethylbenzene	24.28	5.0	20	0	121	70 - 124	25.23	3.82	20
Toluene	24.34	5.0	20	0	122	70 - 123	25.09	3.03	20
Xylenes, Total	72.29	5.0	60	0	120	70 - 130	74.17	2.56	20
Surr: 1,2-Dichloroethane-d4	44.91	0	50	0	89.8	70 - 126	44.41	1.13	20
Surr: 4-Bromofluorobenzene	48.81	0	50	0	97.6	82 - 124	48.57	0.503	20
Surr: Dibromofluoromethane	46.33	0	50	0	92.7	77 - 123	46.58	0.534	20
Surr: Toluene-d8	52.78	0	50	0	106	82 - 127	52.24	1.03	20
The following samples were analyzed in this batch:									
HS20080611-04 HS20080611-05 HS20080611-06									

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366993 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200818	Units: ug/L		Analysis Date: 18-Aug-2020 14:53					
Client ID:	Run ID: VOA9_366993	SeqNo: 5705243		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	51.03	0	50	0	102	70 - 130			
Surr: 4-Bromofluorobenzene	47.67	0	50	0	95.3	82 - 115			
Surr: Dibromofluoromethane	50.87	0	50	0	102	73 - 126			
Surr: Toluene-d8	48.46	0	50	0	96.9	81 - 120			

LCS	Sample ID: VLCSW-200818	Units: ug/L		Analysis Date: 18-Aug-2020 14:04					
Client ID:	Run ID: VOA9_366993	SeqNo: 5705242		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	21.5	5.0	20	0	108	74 - 120			
Ethylbenzene	21.77	5.0	20	0	109	77 - 117			
Toluene	21.42	5.0	20	0	107	77 - 118			
Xylenes, Total	66.73	5.0	60	0	111	75 - 122			
Surr: 1,2-Dichloroethane-d4	47.25	0	50	0	94.5	70 - 130			
Surr: 4-Bromofluorobenzene	49.75	0	50	0	99.5	82 - 115			
Surr: Dibromofluoromethane	49.49	0	50	0	99.0	73 - 126			
Surr: Toluene-d8	50.66	0	50	0	101	81 - 120			

MS	Sample ID: HS20080640-01MS	Units: ug/L		Analysis Date: 18-Aug-2020 17:20					
Client ID:	Run ID: VOA9_366993	SeqNo: 5705248		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	22.08	5.0	20	0	110	70 - 127			
Ethylbenzene	21.67	5.0	20	0	108	70 - 124			
Toluene	21.9	5.0	20	0	110	70 - 123			
Xylenes, Total	65.58	5.0	60	0	109	70 - 130			
Surr: 1,2-Dichloroethane-d4	44.95	0	50	0	89.9	70 - 126			
Surr: 4-Bromofluorobenzene	48.87	0	50	0	97.7	82 - 124			
Surr: Dibromofluoromethane	49.32	0	50	0	98.6	77 - 123			
Surr: Toluene-d8	49.72	0	50	0	99.4	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R366993 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20080640-01MSD		Units: ug/L		Analysis Date: 18-Aug-2020 17:45			
Client ID:		Run ID: VOA9_366993		SeqNo: 5705249		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.88	5.0	20	0	104	70 - 127	22.08	5.63	20
Ethylbenzene	20.34	5.0	20	0	102	70 - 124	21.67	6.35	20
Toluene	20.89	5.0	20	0	104	70 - 123	21.9	4.71	20
Xylenes, Total	62	5.0	60	0	103	70 - 130	65.58	5.61	20
Surr: 1,2-Dichloroethane-d4	50.62	0	50	0	101	70 - 126	44.95	11.9	20
Surr: 4-Bromofluorobenzene	51.28	0	50	0	103	82 - 124	48.87	4.82	20
Surr: Dibromofluoromethane	51.32	0	50	0	103	77 - 123	49.32	3.97	20
Surr: Toluene-d8	50.47	0	50	0	101	82 - 127	49.72	1.48	20

The following samples were analyzed in this batch: HS20080611-07

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

QC BATCH REPORT

Batch ID: R367306 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-082120	Units: mg/L			Analysis Date: 21-Aug-2020 13:11				
Client ID:	Run ID: ICS-Integrion_367306	SeqNo: 5711857		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS-082120	Units: mg/L			Analysis Date: 21-Aug-2020 13:29				
Client ID:	Run ID: ICS-Integrion_367306	SeqNo: 5711858		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	20.02	0.500	20	0	100	90 - 110			
MS	Sample ID: HS20080658-04MS	Units: mg/L			Analysis Date: 23-Aug-2020 02:09				
Client ID:	Run ID: ICS-Integrion_367306	SeqNo: 5711900		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	29.88	0.500	10	20.27	96.1	80 - 120			
MS	Sample ID: HS20080611-02MS	Units: mg/L			Analysis Date: 22-Aug-2020 10:49				
Client ID: MW-2	Run ID: ICS-Integrion_367306	SeqNo: 5711880		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	65.08	0.500	10	56.88	82.0	80 - 120			C
MSD	Sample ID: HS20080658-04MSD	Units: mg/L			Analysis Date: 23-Aug-2020 02:27				
Client ID:	Run ID: ICS-Integrion_367306	SeqNo: 5711901		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	30.18	0.500	10	20.27	99.0	80 - 120	29.88	0.966	20
MSD	Sample ID: HS20080611-02MSD	Units: mg/L			Analysis Date: 22-Aug-2020 11:07				
Client ID: MW-2	Run ID: ICS-Integrion_367306	SeqNo: 5711881		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	64.75	0.500	10	56.88	78.8	80 - 120	65.08	0.498	20
The following samples were analyzed in this batch:		HS20080611-01 HS20080611-05		HS20080611-02 HS20080611-06		HS20080611-03		HS20080611-04	

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55626DM GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20080611

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 24-Aug-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V010	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 24-Aug-20

Sample Receipt Checklist

Work Order ID: HS20080611

Date/Time Received: 13-Aug-2020 09:15

Client Name: Glen Springs/CRA

Received by: Paresh M. Giga

Completed By: /S/ Bernadette A. Fini	14-Aug-2020 15:14	Reviewed by: /S/ Corey Grandits	18-Aug-2020 13:17
eSignature	Date/Time	eSignature	Date/Time

Matrices: waterCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:225066
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.9/1.9 uc/c IR 31		
Cooler(s)/Kit(s):	45180		
Date/Time sample(s) sent to storage:	8-14-20 15:45		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 225066

HS20080611

Glenn Springs Holdings, Inc.
55626DM GSHI PXP Elliot E.M. Federal TB

Page 99 of 122



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	4502201559 ENV 749-402-D02-110	Project Name	GSHI PXP Elliot E.M. Federal TB	A 8260_W (BTEX)
Work Order		Project Number	55626DM (ENV749A006)	B 300_W (Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C 8260_W (BTEX) Trip Blank
Send Report To	Mike Camona	Invoice Attn	Accounts Payable	D
Address	PO Box 2148	Address	PO Box 2148	E
				F
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	G
Phone		Phone		H
Fax		Fax		I
e-Mail Address	Mike.Camona@tetrattech.com	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1P	8-11-20	1340	Groundwa	1,8	4	X	X									
2	MW-2	8-11-20	1230	Groundwa	1,8	4	X	X									
3	MW-3	8-11-20	1225	Groundwa	1,8	4	X	X									
4	MW-4	8-11-20	1110	Groundwa	1,8	4	X	X									
5	MW-5	8-11-20	1145	Groundwa	1,8	4	X	X									
6	DUP	8-11-20	—	Groundwa	1,8	4	X	X									
7	Trip Blank	—	—	Water	1,8	2			X								
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Preston Portant</i>		Shipment Method FedEx		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: <i>John Miller</i>	Date: 8-12-20	Time: 1630	Received by:		Notes: [GSHI PXP Elliot EM Federal TB]		
Relinquished by:	Date: 08-13-20	Time: 9:15	Received by (Laboratory): PG		Cooler ID: 45180	Cooler Temp.: 109	QC Package: (Check One Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		☒ Level II Std QC	☐ TRRP Checklist	
					☐ Level III Std QC/Raw Data	☐ TRRP Level IV	
					☐ Level IV SW646/CLP		
					☐ Other		
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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USTODY SEAL	
L-20 TIME: 1:30 Date: 1/24	Seal Broken By: [Signature] Date: 1/24

	ALS
	10450 Stancliff Rd., Suite 210
	Houston, Texas 77099
	Tel. +1 281 530 5656
	Fax. +1 281 530 5887
	Date: 1/24 Name: _____ Company: _____

FedEx TRK# 1891 8879 0500 AB SGRA	THU - 13 AUG 10:30A PRIORITY OVERNIGHT 77099 TX-US IAH
	



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 02, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20111014**

Laboratory Results for: **55626 GSHI PXP Elliot E.M. Federal TB**

Dear Mike Carmona,

ALS Environmental received 7 sample(s) on Nov 19, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
Work Order: HS20111014

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20111014-01	MW-1R	Groundwater		16-Nov-2020 14:30	19-Nov-2020 09:55	☐
HS20111014-02	MW-2	Groundwater		16-Nov-2020 11:30	19-Nov-2020 09:55	☐
HS20111014-03	MW-3	Groundwater		16-Nov-2020 13:40	19-Nov-2020 09:55	☐
HS20111014-04	MW-4	Groundwater		16-Nov-2020 12:20	19-Nov-2020 09:55	☐
HS20111014-05	MW-5	Groundwater		16-Nov-2020 10:45	19-Nov-2020 09:55	☐
HS20111014-06	DUP	Groundwater		16-Nov-2020 00:00	19-Nov-2020 09:55	☐
HS20111014-07	Trip Blank	Water	CG-102720 -221	16-Nov-2020 00:00	19-Nov-2020 09:55	☐

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
Work Order: HS20111014

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R373527

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R373577

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R373782

Sample ID: MW-2 (HS20111014-02MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride)
-

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626 GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-1R
 Collection Date: 16-Nov-2020 14:30

ANALYTICAL REPORT

WorkOrder:HS20111014
 Lab ID:HS20111014-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	29-Nov-2020 15:26
Ethylbenzene	U		0.00050	0.0050	mg/L	1	29-Nov-2020 15:26
Toluene	U		0.00050	0.0050	mg/L	1	29-Nov-2020 15:26
Xylenes, Total	U		0.00050	0.0050	mg/L	1	29-Nov-2020 15:26
Surr: 1,2-Dichloroethane-d4	104			70-126	%REC	1	29-Nov-2020 15:26
Surr: 4-Bromofluorobenzene	95.5			82-124	%REC	1	29-Nov-2020 15:26
Surr: Dibromofluoromethane	96.8			77-123	%REC	1	29-Nov-2020 15:26
Surr: Toluene-d8	98.8			82-127	%REC	1	29-Nov-2020 15:26
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	11,700		40.0	100	mg/L	200	02-Dec-2020 10:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626 GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-2
 Collection Date: 16-Nov-2020 11:30

ANALYTICAL REPORT

WorkOrder:HS20111014
 Lab ID:HS20111014-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	28-Nov-2020 19:23
Ethylbenzene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 19:23
Toluene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 19:23
Xylenes, Total	U		0.00050	0.0050	mg/L	1	28-Nov-2020 19:23
Surr: 1,2-Dichloroethane-d4	85.3			70-126	%REC	1	28-Nov-2020 19:23
Surr: 4-Bromofluorobenzene	87.6			82-124	%REC	1	28-Nov-2020 19:23
Surr: Dibromofluoromethane	87.7			77-123	%REC	1	28-Nov-2020 19:23
Surr: Toluene-d8	102			82-127	%REC	1	28-Nov-2020 19:23
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	56.7		0.200	0.500	mg/L	1	02-Dec-2020 10:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626 GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-3
 Collection Date: 16-Nov-2020 13:40

ANALYTICAL REPORT

WorkOrder:HS20111014
 Lab ID:HS20111014-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	28-Nov-2020 19:44
Ethylbenzene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 19:44
Toluene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 19:44
Xylenes, Total	U		0.00050	0.0050	mg/L	1	28-Nov-2020 19:44
Surr: 1,2-Dichloroethane-d4	84.8			70-126	%REC	1	28-Nov-2020 19:44
Surr: 4-Bromofluorobenzene	89.2			82-124	%REC	1	28-Nov-2020 19:44
Surr: Dibromofluoromethane	86.4			77-123	%REC	1	28-Nov-2020 19:44
Surr: Toluene-d8	103			82-127	%REC	1	28-Nov-2020 19:44
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	58.1		0.200	0.500	mg/L	1	02-Dec-2020 11:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626 GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-4
 Collection Date: 16-Nov-2020 12:20

ANALYTICAL REPORT

WorkOrder:HS20111014
 Lab ID:HS20111014-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	28-Nov-2020 20:05
Ethylbenzene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:05
Toluene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:05
Xylenes, Total	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:05
Surr: 1,2-Dichloroethane-d4	86.6			70-126	%REC	1	28-Nov-2020 20:05
Surr: 4-Bromofluorobenzene	88.5			82-124	%REC	1	28-Nov-2020 20:05
Surr: Dibromofluoromethane	87.0			77-123	%REC	1	28-Nov-2020 20:05
Surr: Toluene-d8	103			82-127	%REC	1	28-Nov-2020 20:05
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	999		10.0	25.0	mg/L	50	02-Dec-2020 11:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626 GSHI PXP Elliot E.M. Federal TB
 Sample ID: MW-5
 Collection Date: 16-Nov-2020 10:45

ANALYTICAL REPORT

WorkOrder:HS20111014
 Lab ID:HS20111014-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	28-Nov-2020 20:26
Ethylbenzene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:26
Toluene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:26
Xylenes, Total	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:26
Surr: 1,2-Dichloroethane-d4	84.5			70-126	%REC	1	28-Nov-2020 20:26
Surr: 4-Bromofluorobenzene	90.2			82-124	%REC	1	28-Nov-2020 20:26
Surr: Dibromofluoromethane	85.7			77-123	%REC	1	28-Nov-2020 20:26
Surr: Toluene-d8	101			82-127	%REC	1	28-Nov-2020 20:26
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	48.3		0.200	0.500	mg/L	1	02-Dec-2020 12:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626 GSHI PXP Elliot E.M. Federal TB
 Sample ID: DUP
 Collection Date: 16-Nov-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20111014
 Lab ID:HS20111014-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	28-Nov-2020 20:47
Ethylbenzene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:47
Toluene	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:47
Xylenes, Total	U		0.00050	0.0050	mg/L	1	28-Nov-2020 20:47
Surr: 1,2-Dichloroethane-d4	87.1			70-126	%REC	1	28-Nov-2020 20:47
Surr: 4-Bromofluorobenzene	90.5			82-124	%REC	1	28-Nov-2020 20:47
Surr: Dibromofluoromethane	90.3			77-123	%REC	1	28-Nov-2020 20:47
Surr: Toluene-d8	99.9			82-127	%REC	1	28-Nov-2020 20:47
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	1,010		10.0	25.0	mg/L	50	02-Dec-2020 12:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
 Project: 55626 GSHI PXP Elliot E.M. Federal TB
 Sample ID: Trip Blank
 Collection Date: 16-Nov-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20111014
 Lab ID:HS20111014-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.00060	0.0050	mg/L	1	29-Nov-2020 15:48
Ethylbenzene	U		0.00050	0.0050	mg/L	1	29-Nov-2020 15:48
Toluene	U		0.00050	0.0050	mg/L	1	29-Nov-2020 15:48
Xylenes, Total	U		0.00050	0.0050	mg/L	1	29-Nov-2020 15:48
Surr: 1,2-Dichloroethane-d4	102			70-126	%REC	1	29-Nov-2020 15:48
Surr: 4-Bromofluorobenzene	99.4			82-124	%REC	1	29-Nov-2020 15:48
Surr: Dibromofluoromethane	95.8			77-123	%REC	1	29-Nov-2020 15:48
Surr: Toluene-d8	102			82-127	%REC	1	29-Nov-2020 15:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20111014

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R373527 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20111014-02	MW-2	16 Nov 2020 11:30			28 Nov 2020 19:23	1
HS20111014-03	MW-3	16 Nov 2020 13:40			28 Nov 2020 19:44	1
HS20111014-04	MW-4	16 Nov 2020 12:20			28 Nov 2020 20:05	1
HS20111014-05	MW-5	16 Nov 2020 10:45			28 Nov 2020 20:26	1
HS20111014-06	DUP	16 Nov 2020 00:00			28 Nov 2020 20:47	1
Batch ID: R373577 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS20111014-07	Trip Blank	16 Nov 2020 00:00			29 Nov 2020 15:48	1
Batch ID: R373577 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20111014-01	MW-1R	16 Nov 2020 14:30			29 Nov 2020 15:26	1
Batch ID: R373782 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20111014-01	MW-1R	16 Nov 2020 14:30			02 Dec 2020 10:14	200
HS20111014-02	MW-2	16 Nov 2020 11:30			02 Dec 2020 10:32	1
HS20111014-03	MW-3	16 Nov 2020 13:40			02 Dec 2020 11:26	1
HS20111014-04	MW-4	16 Nov 2020 12:20			02 Dec 2020 11:44	50
HS20111014-05	MW-5	16 Nov 2020 10:45			02 Dec 2020 12:02	1
HS20111014-06	DUP	16 Nov 2020 00:00			02 Dec 2020 12:21	50

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20111014

QC BATCH REPORT

Batch ID: R373527 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-201128	Units: ug/L		Analysis Date: 28-Nov-2020 12:43					
Client ID:	Run ID: VOA6_373527	SeqNo: 5854577		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	40.57	0	50	0	81.1	70 - 130			
Surr: 4-Bromofluorobenzene	43.86	0	50	0	87.7	82 - 115			
Surr: Dibromofluoromethane	42.51	0	50	0	85.0	73 - 126			
Surr: Toluene-d8	50.2	0	50	0	100	81 - 120			

LCS	Sample ID: VLCSW-201128	Units: ug/L		Analysis Date: 28-Nov-2020 12:01					
Client ID:	Run ID: VOA6_373527	SeqNo: 5854576		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.53	5.0	20	0	108	74 - 120			
Ethylbenzene	20.32	5.0	20	0	102	77 - 117			
Toluene	20.36	5.0	20	0	102	77 - 118			
Xylenes, Total	59.43	5.0	60	0	99.1	75 - 122			
Surr: 1,2-Dichloroethane-d4	52.03	0	50	0	104	70 - 130			
Surr: 4-Bromofluorobenzene	47.63	0	50	0	95.3	82 - 115			
Surr: Dibromofluoromethane	51.92	0	50	0	104	73 - 126			
Surr: Toluene-d8	48.8	0	50	0	97.6	81 - 120			

MS	Sample ID: HS20110896-03MS	Units: ug/L		Analysis Date: 28-Nov-2020 14:49					
Client ID:	Run ID: VOA6_373527	SeqNo: 5854583		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	15.98	5.0	20	0	79.9	70 - 127			
Ethylbenzene	17.93	5.0	20	0	89.7	70 - 124			
Toluene	16.17	5.0	20	0	80.9	70 - 123			
Xylenes, Total	48.77	5.0	60	0	81.3	70 - 130			
Surr: 1,2-Dichloroethane-d4	45.19	0	50	0	90.4	70 - 126			
Surr: 4-Bromofluorobenzene	47.88	0	50	0	95.8	82 - 124			
Surr: Dibromofluoromethane	45.58	0	50	0	91.2	77 - 123			
Surr: Toluene-d8	50.11	0	50	0	100	82 - 127			

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20111014

QC BATCH REPORT

Batch ID: R373527 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS20110896-03MSD	Units: ug/L		Analysis Date: 28-Nov-2020 15:10						
Client ID:	Run ID: VOA6_373527	SeqNo: 5854584		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	14.83	5.0	20	0	74.1	70 - 127	15.98	7.49	20	
Ethylbenzene	16.79	5.0	20	0	84.0	70 - 124	17.93	6.56	20	
Toluene	16.05	5.0	20	0	80.2	70 - 123	16.17	0.767	20	
Xylenes, Total	47.39	5.0	60	0	79.0	70 - 130	48.77	2.87	20	
Surr: 1,2-Dichloroethane-d4	43.11	0	50	0	86.2	70 - 126	45.19	4.73	20	
Surr: 4-Bromofluorobenzene	46.48	0	50	0	93.0	82 - 124	47.88	2.98	20	
Surr: Dibromofluoromethane	44.88	0	50	0	89.8	77 - 123	45.58	1.55	20	
Surr: Toluene-d8	50.63	0	50	0	101	82 - 127	50.11	1.04	20	
The following samples were analyzed in this batch:										
HS20111014-02 HS20111014-03 HS20111014-04 HS20111014-05 HS20111014-06										

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20111014

QC BATCH REPORT

Batch ID: R373577 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-201129	Units: ug/L		Analysis Date: 29-Nov-2020 12:58					
Client ID:	Run ID: VOA9_373577		SeqNo: 5855627		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	50.99	0	50	0	102	70 - 130			
Surr: 4-Bromofluorobenzene	51.04	0	50	0	102	82 - 115			
Surr: Dibromofluoromethane	48.57	0	50	0	97.1	73 - 126			
Surr: Toluene-d8	50.62	0	50	0	101	81 - 120			

LCS	Sample ID: VLCSW-201129	Units: ug/L		Analysis Date: 29-Nov-2020 12:15					
Client ID:	Run ID: VOA9_373577		SeqNo: 5855626		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	17.17	5.0	20	0	85.9	74 - 120			
Ethylbenzene	17.21	5.0	20	0	86.0	77 - 117			
Toluene	17.07	5.0	20	0	85.4	77 - 118			
Xylenes, Total	56.14	5.0	60	0	93.6	75 - 122			
Surr: 1,2-Dichloroethane-d4	50.84	0	50	0	102	70 - 130			
Surr: 4-Bromofluorobenzene	50.11	0	50	0	100	82 - 115			
Surr: Dibromofluoromethane	49.25	0	50	0	98.5	73 - 126			
Surr: Toluene-d8	50.36	0	50	0	101	81 - 120			

MS	Sample ID: HS20110963-02MS	Units: ug/L		Analysis Date: 29-Nov-2020 14:23					
Client ID:	Run ID: VOA9_373577		SeqNo: 5855631		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	19.36	5.0	20	0	96.8	70 - 127			
Ethylbenzene	21.79	5.0	20	0	109	70 - 124			
Toluene	19.82	5.0	20	0	99.1	70 - 123			
Xylenes, Total	65.88	5.0	60	0	110	70 - 130			
Surr: 1,2-Dichloroethane-d4	51.45	0	50	0	103	70 - 126			
Surr: 4-Bromofluorobenzene	50.49	0	50	0	101	82 - 124			
Surr: Dibromofluoromethane	48.9	0	50	0	97.8	77 - 123			
Surr: Toluene-d8	50.16	0	50	0	100	82 - 127			

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20111014

QC BATCH REPORT

Batch ID: R373577 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD	Sample ID: HS20110963-02MSD	Units: ug/L		Analysis Date: 29-Nov-2020 14:44					
Client ID:	Run ID: VOA9_373577	SeqNo: 5855632		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.83	5.0	20	0	94.1	70 - 127	19.36	2.81	20
Ethylbenzene	21.11	5.0	20	0	106	70 - 124	21.79	3.2	20
Toluene	19.54	5.0	20	0	97.7	70 - 123	19.82	1.42	20
Xylenes, Total	64.43	5.0	60	0	107	70 - 130	65.88	2.22	20
Surr: 1,2-Dichloroethane-d4	51.32	0	50	0	103	70 - 126	51.45	0.256	20
Surr: 4-Bromofluorobenzene	50.1	0	50	0	100	82 - 124	50.49	0.773	20
Surr: Dibromofluoromethane	49.36	0	50	0	98.7	77 - 123	48.9	0.93	20
Surr: Toluene-d8	49.46	0	50	0	98.9	82 - 127	50.16	1.4	20
The following samples were analyzed in this batch: HS20111014-01 HS20111014-07									

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20111014

QC BATCH REPORT

Batch ID: R373782 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-120120	Units: mg/L			Analysis Date: 01-Dec-2020 23:21				
Client ID:	Run ID: ICS-Integrion_373782		SeqNo: 5860112		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS-120120	Units: mg/L			Analysis Date: 01-Dec-2020 23:39				
Client ID:	Run ID: ICS-Integrion_373782		SeqNo: 5860113		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	19.94	0.500	20	0	99.7	90 - 110			
MS	Sample ID: HS20120010-01MS	Units: mg/L			Analysis Date: 01-Dec-2020 19:44				
Client ID:	Run ID: ICS-Integrion_373782		SeqNo: 5860106		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	44.65	0.500	10	35.11	95.4	80 - 120			
MS	Sample ID: HS20111014-02MS	Units: mg/L			Analysis Date: 02-Dec-2020 10:50				
Client ID: MW-2	Run ID: ICS-Integrion_373782		SeqNo: 5860123		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	64.36	0.500	10	56.71	76.5	80 - 120			SO
MSD	Sample ID: HS20120010-01MSD	Units: mg/L			Analysis Date: 01-Dec-2020 20:02				
Client ID:	Run ID: ICS-Integrion_373782		SeqNo: 5860107		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	44.38	0.500	10	35.11	92.7	80 - 120	44.65	0.602	20
MSD	Sample ID: HS20111014-02MSD	Units: mg/L			Analysis Date: 02-Dec-2020 11:08				
Client ID: MW-2	Run ID: ICS-Integrion_373782		SeqNo: 5860124		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	64.34	0.500	10	56.71	76.3	80 - 120	64.36	0.0326	20
The following samples were analyzed in this batch:									
HS20111014-01			HS20111014-02		HS20111014-03		HS20111014-04		
HS20111014-05			HS20111014-06						

ALS Houston, US

Date: 02-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55626 GSHI PXP Elliot E.M. Federal TB
WorkOrder: HS20111014

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 02-Dec-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 02-Dec-20

Sample Receipt Checklist

Work Order ID: HS20111014

Date/Time Received: 19-Nov-2020 09:55

Client Name: Glen Springs/CRA

Received by: Jared R. Makan

Completed By: /S/ Pablo Martinez	19-Nov-2020 15:47	Reviewed by: /S/ Dane J. Wacasey	24-Nov-2020 16:31
eSignature	Date/Time	eSignature	Date/Time

Matrices: **WATER**Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:230231
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

1.4°C UC/C IR 31

Cooler(s)/Kit(s):

46281

Date/Time sample(s) sent to storage:

11/19/20 15:55

Water - VOA vials have zero headspace?

Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐ No ☐ N/A ☒

pH adjusted?

Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 230231

HS20111014

Glenn Springs Holdings, Inc.

4502201559 GSHI PXP Elliot E.M. Federal TB



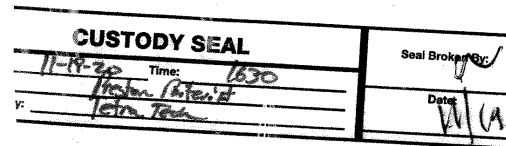
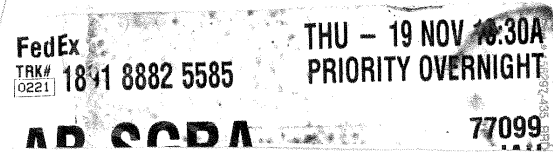
Customer Information		Project Information		ALS Project Manager:																
Purchase Order	4502201559 ENV 749-402-D02-110	Project Name	GSHI PXP Elliot E.M. Federal TB	A	8260_W (BTEX)															
Work Order		Project Number	55626DM (ENV749A006)	B	300_W (Chloride)															
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (BTEX) Trip Blank															
Send Report To	Mike Carmona	Invoice Attn	Accounts Payable	D																
Address	PO Box 2148	Address	PO Box 2148	E																
				F																
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	G																
Phone		Phone		H																
Fax		Fax		I																
e-Mail Address	Mike.Carmona@tetrattech.com	e-Mail Address		J																

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1R	11-16-20	1430	Groundwa	1,8	4	X	X									
2	MW-2	11-16-20	1130	Groundwa	1,8	4	X	X									
3	MW-3	11-16-20	1340	Groundwa	1,8	4	X	X									
4	MW-4	11-16-20	1220	Groundwa	1,8	4	X	X									
5	MW-5	11-16-20	1045	Groundwa	1,8	4	X	X									
6	DUP	11-16-20		Groundwa	1,8	4	X	X									
7	Trip Blank			Water	1,8	2			X								
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method FedEx		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:	
Relinquished by:	Date: 11-18-20	Time: 1800	Received by:		Notes: [GSHI PXP Elliot EM Federal TB]				
Relinquished by:	Date: 11/19/20	Time: 09:55	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		46281	1.4°C	☒ Level II Std QC	☐ TRRP CheckMist	
							☐ Level III Std QC/Raw Data	☐ TRRP Level IV	
							☐ Level IV SW846/CLP		
							☐ Other		

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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 16685

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number: 16685
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Groundwater Sampling and MW-1R Pumping Report: Content satisfactory 1. Continued quarterly groundwater monitoring and quarterly pumping of monitor well MW-1R 2. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	12/28/2021